

# *Home Owners'*

C A T A L O G S



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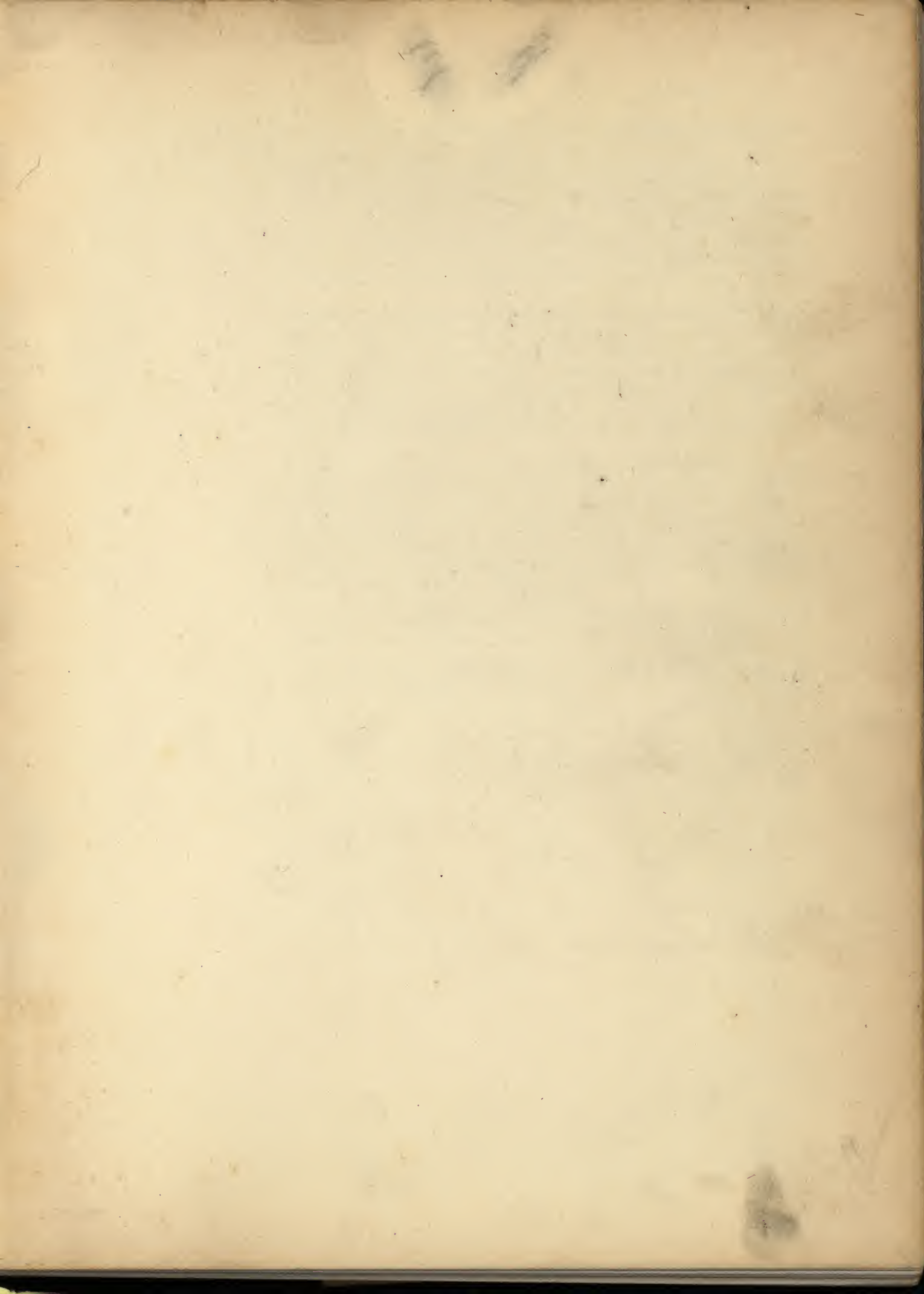
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## **building a home is a romantic experience**

However, there are practical aspects entering into home planning and building that may mean the difference between happiness and dissatisfaction to you over the years. These practical aspects are the designing and planning details of house construction and furnishing. Therefore, consider well the two important factors of *design* and *plan* which necessarily must be adjusted to your *desires*, your *needs* and your *budget*. For the actual handling of the design and plan features an architecturally trained man is better fitted than anyone else.

But the architect needs and wants guidance as to what you would like to have in your new home and in line with the amount of money you have to spend. Obviously, you are more interested in your home than anyone else. You are going to pay for it. You are going to live in it. The materials, equipment and furnishings that go into your home are there to stay. You have definite ideas and preferences, —and the architecturally trained man is anxious to know what they are. He wants to satisfy you and your family to the best of his ability with the resources available.

To meet the needs and requirements as outlined in the preceding paragraph is the purpose of Home Owners' Catalogs. Besides being a guide to home planners it is also filled with current, reliable home planning information. In it you will find descriptions of products that will increase the comfort and convenience of your home, enhance its appearance, make it less costly to maintain and add materially to its value as an investment. In it you will find products that are new to you, and desirable suggestions that may not have occurred to you.

Home Owners' Catalogs is a home-library volume. For home planning, for remodeling, for redecorating, or adding to your home, it is invaluable.

It is our sincere hope that Home Owners' Catalogs will be of interest, service and benefit to you, your family and your friends.



Building a Library is a Continuous Process

Building a library is a continuous process. It is not a one-time effort, but a lifelong journey. The library is a living organism that grows and changes over time. It is a place where knowledge is shared and where the community comes together to learn and grow. The library is a place where the past meets the present and the future. It is a place where the community can find the resources it needs to thrive.

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# *Home Owners'* C A T A L O G S

REG. U. S. PAT. OFF.

Designed, to serve those who are planning their own homes as a guide, a reference work and a valuable, practical aid in the selection of building materials, equipment and furnishings best suited to meet their needs and desires.

**F. W. Dodge Corporation**

119 West 40th Street, New York 18, N. Y.

**index information . . . For Your Guidance.** You will want to read Home Owners' Catalogs from cover to cover but for re-reference and so that you may more readily locate the home product or service in which you or your family are interested at any specific time, we have established on the following pages index classifications under products.

Because the bound catalog pages in this volume are *not* numbered in sequence we have inserted the catalogs in alphabetical order according to the names of the companies whose catalogs appear herein. This will make it easy for you to locate the home planning information, products or services in which you are interested. Simply refer to the desired index classification and look for the bound-in catalog in alphabetical sequence.



## **index-products**

individual catalogs listed below are arranged alphabetically within this volume

### **a**

#### **air cleaners**

##### **electric**

Westinghouse Electric Corporation

#### **air conditioning**

American Gas Association •  
Bryant Heater Company  
Gar Wood Industries, Inc.  
Henry Furnace Company  
C. A. Olsen Manufacturing Company  
Westinghouse Electric Corporation  
Iron Fireman Manufacturing Co.

#### **arches**

##### **metal**

Milcor Steel Company  
Truscon Steel Company

#### **automatic controls, heating and air conditioning**

Minneapolis-Honeywell Regulator Co.

### **b**

#### **boilers**

##### **heating**

Bryant Heater Company  
Gar Wood Industries, Inc.

##### **hot water**

Gar Wood Industries, Inc.  
International Nickel Company, Inc.  
Malleable Iron Range Co.

#### **burner units**

##### **burner units—coal**

Iron Fireman Manufacturing Co.

##### **burner units—gas**

American Gas Association •  
Bryant Heater Company  
Gar Wood Industries, Inc.  
Henry Furnace Company  
C. A. Olsen Manufacturing Company

##### **burner units—oil**

Gar Wood Industries, Inc.  
Henry Furnace Company  
Iron Fireman Manufacturing Co.  
C. A. Olsen Manufacturing Company

### **c**

#### **cabinet hardware**

Good Hardware Sponsors

#### **cabinets**

##### **bathroom**

Mullins Manufacturing Corporation

##### **cleaning equipment**

Mullins Manufacturing Corporation

##### **kitchen**

Mullins Manufacturing Corporation

##### **sink**

Mullins Manufacturing Corporation  
Westinghouse Electric Corporation

##### **tops for**

International Nickel Company, Inc.  
Mullins Manufacturing Corporation

##### **wall**

Mullins Manufacturing Corporation

#### **carts**

##### **pick up**

Milcor Steel Company

#### **circuit breakers**

Westinghouse Electric Corporation

#### **closet fixtures**

brackets, hangers, rods, racks  
Good Hardware Sponsors

#### **closet hardware**

Good Hardware Sponsors

#### **clothes hangers**

Good Hardware Sponsors

#### **coolers**

##### **room**

Westinghouse Electric Corporation

##### **water**

Westinghouse Electric Corporation

#### **corner beads**

Milcor Steel Company  
Truscon Steel Company

### **d**

#### **dishwashers**

Westinghouse Electric Corporation

#### **door hardware**

Good Hardware Sponsors

#### **doors**

##### **access**

Milcor Steel Company

##### **coal chute**

Truscon Steel Company

##### **flue**

Heatilator, Inc.  
Milcor Steel Company

##### **frames for**

Milcor Steel Company

##### **glass**

Libbey-Owens-Ford Glass Company

##### **sliding**

Milcor Steel Company  
Truscon Steel Company

##### **switches for**

Westinghouse Electric Corporation

#### **dryers**

##### **clothes**

Westinghouse Electric Corporation

### **f**

#### **fans**

##### **attic**

Gar Wood Industries, Inc.

##### **ceiling**

Pryne & Co., Inc.

##### **electric**

Westinghouse Electric Corporation

##### **exhaust**

Pryne & Co., Inc.

##### **ventilating**

Gar Wood Industries, Inc.  
Pryne & Co., Inc.  
Westinghouse Electric Corporation

#### **fireplace**

##### **accessories**

Heatilator, Inc.

##### **heat circulating units**

Heatilator, Inc.

##### **glass**

Libbey-Owens-Ford Glass Company  
Pittsburgh Plate Glass Company

##### **heaters**

Bryant Heater Company

#### **fittings**

##### **solder type**

Mueller Brass Co.

#### **floodlights**

Westinghouse Electric Corporation

#### **flooring**

##### **linoleum**

Congoleum-Nairn Inc.

#### **food freezers**

Westinghouse Electric Corporation

• do not manufacture—information supplied as a service for home planners



# index-products

individual catalogs listed below are arranged alphabetically within this volume

## **fuel**

American Gas Association •

## **furnaces**

Bryant Heater Company  
Gar Wood Industries, Inc.  
Henry Furnace Company  
Iron Fireman Manufacturing Co.  
C. A. Olsen Manufacturing Company

### **burner units—coal**

Henry Furnace Company  
Iron Fireman Manufacturing Co.  
C. A. Olsen Manufacturing Company

### **burner units—gas**

Bryant Heater Company  
Gar Wood Industries, Inc.  
Henry Furnace Company  
C. A. Olsen Manufacturing Company

### **burner units—oil**

Gar Wood Industries, Inc.  
Henry Furnace Company  
Iron Fireman Manufacturing Co.  
C. A. Olsen Manufacturing Company

## **floor**

Bryant Heater Company

## **g**

### **garage door hardware**

Good Hardware Sponsors

### **garbage disposer**

#### **electric**

Westinghouse Electric Corporation

### **gas burners**

American Gas Association •  
Bryant Heater Company

## **glass**

### **blocks**

Pittsburgh Plate Glass Company

### **decorative**

Libbey-Owens-Ford Glass Company  
Pittsburgh Plate Glass Company

### **double glazing**

Libbey-Owens-Ford Glass Company  
Pittsburgh Plate Glass Company

### **furniture**

Libbey-Owens-Ford Glass Company  
Pittsburgh Plate Glass Company

### **plate**

Libbey-Owens-Ford Glass Company  
Pittsburgh Plate Glass Company

### **structural**

Libbey-Owens-Ford Glass Company  
Pittsburgh Plate Glass Company

## **window**

Libbey-Owens-Ford Glass Company  
Pittsburgh Plate Glass Company

## **greenhouses**

Libbey-Owens-Ford Glass Company •  
Mesker Brothers Iron Company

## **h**

### **hangers**

#### **garment**

Good Hardware Sponsors

### **hardware**

Good Hardware Sponsors

## **heating**

### **automatic**

American Gas Association •  
Bryant Heater Company  
Gar Wood Industries, Inc.  
Henry Furnace Company  
Iron Fireman Manufacturing Co.  
C. A. Olsen Manufacturing Company

### **hot water systems, forced circulation**

Bryant Heater Company  
Gar Wood Industries, Inc.

### **hot water systems, gravity flow**

Bryant Heater Company  
Gar Wood Industries, Inc.

### **space (room)**

Bryant Heater Company  
Malleable Iron Range Co.  
Westinghouse Electric Corporation

### **steam systems**

Bryant Heater Company  
Gar Wood Industries, Inc.

### **vapor systems**

Bryant Heater Company

### **warm air systems, forced circulation**

Bryant Heater Company  
Gar Wood Industries, Inc.  
Henry Furnace Company  
Iron Fireman Manufacturing Co.  
C. A. Olsen Manufacturing Company

### **warm air systems, gravity flow**

Bryant Heater Company  
Gar Wood Industries, Inc.  
Henry Furnace Company  
Iron Fireman Manufacturing Co.  
C. A. Olsen Manufacturing Company

## **i**

### **ironers**

Westinghouse Electric Corporation

### **insulation**

Libbey-Owens-Ford Glass Company

## **insurance**

### **automobile**

Liberty Mutual Insurance Company

### **fire**

Liberty Mutual Insurance Company  
(written by United Mutual Insurance Co.)

### **personal accident**

Liberty Mutual Insurance Company

### **personal liability**

Liberty Mutual Insurance Company

### **personal property**

Liberty Mutual Insurance Company  
(written by United Mutual Insurance Co.)

## **k**

### **kitchen cabinets**

Mullins Manufacturing Corporation

### **kitchen cabinet tops**

International Nickel Company, Inc. •

## **l**

### **lamps**

#### **fluorescent**

Westinghouse Electric Corporation

#### **germicidal**

Westinghouse Electric Corporation

#### **heat**

Westinghouse Electric Corporation

#### **sun**

Westinghouse Electric Corporation

### **linoleum**

Congoleum-Nairn Inc.

### **locks**

Good Hardware Sponsors

### **lath**

#### **metal**

Milcor Steel Company

## **m**

### **mirrors**

Libbey-Owens-Ford Glass Company  
Pittsburgh Plate Glass Company

### **moulding**

Milcor Steel Company

## **o**

### **oil burners**

Gar Wood Industries, Inc.  
Iron Fireman Manufacturing Co.

• do not manufacture—information supplied as a service for home planners



## index-products

individual catalogs listed below are arranged alphabetically within this volume

### P

#### package receivers

Milcor Steel Company

#### phonographs

##### radio-combination

Westinghouse Electric Corporation

#### pipe

##### copper

Mueller Brass Co.

#### plaster base

Milcor Steel Company

### R

#### radios

Westinghouse Electric Corporation

#### ranges

##### coal & wood

Malleable Iron Range Co.

##### electric

Malleable Iron Range Co.

Westinghouse Electric Corporation

##### gas

American Gas Association •

Malleable Iron Range Co.

#### refrigerators

##### electric

Westinghouse Electric Corporation

##### gas

American Gas Association •

#### roasters

Westinghouse Electric Corporation

### S

#### safety switches

Westinghouse Electric Corporation

#### screens

##### aluminum

Aluminum Window Corporation

##### roller

Rolscreen Company

##### steel frame

Truscon Steel Company

#### shelving

##### glass

Libbey-Owens-Ford Glass Company

Pittsburgh Plate Glass Company

##### steel

Mullins Manufacturing Corporation

#### sinks

##### cabinet

Mullins Manufacturing Corporation

##### kitchen

International Nickel Company, Inc. •

Mullins Manufacturing Corporation

#### stokers

##### hopper

Iron Fireman Manufacturing Co.

##### bin fed

Iron Fireman Manufacturing Co.

### T

#### television

Westinghouse Electric Corporation

#### thermostats

Minneapolis-Honeywell Regulator Co.

#### tile

##### floor

Congoleum-Nairn Inc.

##### wall

Congoleum-Nairn Inc.

### V

#### venetian blinds

Rolscreen Company

#### ventilators

##### fan units

Gar Wood Industries, Inc.

Pryne & Co., Inc.

Westinghouse Electric Corporation

##### louver

Milcor Steel Company

### W

#### wall coverings

##### linoleum

Congoleum-Nairn Inc.

#### washing machines

Westinghouse Electric Corporation

#### window hardware

Good Hardware Sponsors

#### window insulation

Libbey-Owens-Ford Glass Company

#### windows

##### basement

Aluminum Window Corporation

Mesker Brothers Iron Company

Milcor Steel Company

Truscon Steel Company

##### casement

Aluminum Window Corporation

Mesker Brothers Iron Company

Rolscreen Company

Truscon Steel Company

##### double hung

Aluminum Window Corporation

Truscon Steel Company

##### storm

Aluminum Window Corporation

Mesker Brothers Iron Company

Rolscreen Company

Truscon Steel Company

#### window shades

E. I. du Pont De Nemours & Co., Inc.

#### water heaters

American Gas Association •

Bryant Heater Company

Gar Wood Industries, Inc.

International Nickel Company, Inc. •

Malleable Iron Range Co.

Westinghouse Electric Corporation

#### water coolers

Westinghouse Electric Corporation



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# GUIDE TO HOME PLANNING



PREPARED BY KENNETH K. STOWELL, A.I.A., *Editor of Architectural Record*

*Published by* F. W. DODGE CORPORATION



## *You plan your home...*



Planning your own home is a glorious adventure for all the family. It is a tremendous step you are taking, and may seem a little bewildering at first. Probably never again will you spend so much money on one thing. So you simply cannot afford to make mistakes, mistakes you might have to live with for the rest of your days.

That's why you should go at this job slowly and seriously, using the best professional advice. This Guide is part of that advice, designed to eliminate some possible blunders. Dependable help makes home planning absorbing and rewarding, fun while you're doing it and a joy for years to come in the pleasure the finished product gives you.

Home planning in its first stage is partly a family question-and-answer game. You know you want a house. But do you know exactly what kind of a house you want? If you do you're almost unique. Practically everyone is agreed on generalities. They want homes which are well planned, well built, handy, comfortable and attractive, but they are hazy as to materials they prefer, whether this or that heating is the thing, where to use fluorescent lights, and about porches and front halls, and whether it's a good idea to omit the dining room.

Now no one but you can answer many of the dozens of questions which are going to come up. But right now you probably don't know half the questions and certainly not the answers yourselves. This guide is packed with vital questions to help you clarify your own ideas and make necessary decisions.

Supply yourself with a folder, lots of paper and plenty of sharp pencils before you begin. As you discuss, make decisions and fill in answers, make ample notes. If you leaf through the question lists now, you'll find there are many

questions you're not yet ready to answer. When you've finished studying these pages, you'll be much surer about the answers.

You will save yourself some disappointments if you set a rough budget before you get too far in your planning. It's good to have a springboard figure of what you can afford. Considered a good way to arrive at this is to multiply your year's income by one-and-a-half. This will give you a safe cost for the house you can afford. Then multiply your yearly income by three and you have a maximum figure of cost. The final, over-all cost of your new home had best lie between these two amounts, just where being partly conditioned by how much cash you can put into your down payment.

When you've got your financial status down pat and your rough architectural plans in hand, go and talk your project over with a member of a responsible money-lending institution in your community. One of the first things they'll be interested in is the neighborhood you plan to build in. The chances are you've spent many Sundays looking at sites and deciding just that. Only after you've picked your lot and straightened out a financing system, will you be ready to have final working drawings made and out for bids. But let's get back to the planning!

Professional architectural advice is necessary to sound home planning. However, to get the most for the money you pay for this service, you'll do well to be clear as possible what kind of house you honestly want before you take your problem to the expert. He can realize your ideas in bricks and wood and stone and metal only if you can tell him precisely what they are. So gather the family around the conference table and start planning.



## *First things come first...*

When it comes to home planning, every single member of the family should have his or her say, because you're all going to live together here, and God willing, be happy under this roof. Listen to all voices around the family council table. This makes a fine democratic set-up, but it isn't going to work unless you all know what it's practical to have.

There's been a lot of talk about new developments in building materials and methods. Some of these are wonderful improvements, and some of them are far, far in the future. Start by bringing yourself up-to-date, getting a grasp on the facts. Read the pages of this catalog through attentively and then you'll have a basic knowledge of what's what. When you've finished your preliminary run-through, tackle the questionnaires, consulting together, and fill them in as far as you're able to.

About now is the time to get out cross-section paper and to make your sketch diagrams of room layouts (see page 8). Try arranging room units in a general over-all scheme, bearing in mind the nature of your lot (best exposure, prevailing breeze, slope, etc.) Don't get too agitated if you can't devise a scheme which works. Actually, that is the job of an architecturally-trained expert, but by making rough layouts you will prepare yourself to tell him some of your ideas. Try to establish dimensions which take into account the furniture which you have, or mean to get, so it will fit in pleasantly and conveniently.

Spread your sketch planning over a number of sessions and a number of weeks. Compromises are effected gradually. Flash ideas, at first hotly defended, subside. You're going to live in this house a long time. You can afford to take time to get it right.

When you've got a fairly unanimous picture of what you like, find your expert and start working with him on it. The matter of money will now become increasingly important, because he is trained to be able to give you rough estimates from early sketches. Don't be down-hearted if you have to cut your cloth to fit your purse. Nine times out of ten an even better plan will emerge, sparer and more efficient than your first dream.

Though you are full of enthusiasm for the life you will lead in your new home, in sober fact you should remember that one day you may want to sell it. From this point of view it's sage to curb any leanings toward bizarre or odd features.

When you have acceptable sketch plans it is time for you to go back to your financing institution. You are armed with some estimated figures, ready to learn how best to swing the money end of your home.

It is only when all this spade work is over that you will be ready to have final plans, working drawings, "blueprints" made. Naturally your expert will draw them, but don't be intimidated into accepting the plans if you're not wholly satisfied. Continue to make necessary changes and improvements until you have things right. They are simple on paper; they will be impossible later without added costs and heartbreak after construction has started.

The list that follows has been arranged to make it easy for you to add pencil comments. Take full advantage of this feature. Now is the time to record all your ideas in full. Later will be too late.

Check or fill in all the items you can on the next page thinking always of what you really want to do in your new home, and the facilities therefore to be provided.

*Needs and Requirements check list on following page* 

# Needs and Requirements Check List

MRS. \_\_\_\_\_

PROFESSION OR OTHER WORK \_\_\_\_\_ Office work at home ☐ Requires space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

Studio ☐ Music room ☐ Requires space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

HOBBIES OR COLLECTIONS (list) \_\_\_\_\_ Requires space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

SPORTS (list) \_\_\_\_\_ Requires space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

OTHER ACTIVITIES \_\_\_\_\_

SPECIAL REQUIREMENTS \_\_\_\_\_

SLEEPING { Separate bedroom ☐ Shared with \_\_\_\_\_ Size of room desired \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.  
Beds: twin ☐ double ☐ single ☐ sleeping porch ☐ Windows open N ☐ S ☐ E ☐ W ☐  
Other comments \_\_\_\_\_

DRESSING { Separate dressing room ☐ Built-in units \_\_\_\_\_  
Combined dressing room and bath ☐ Combined dressing room and wardrobe ☐  
Vanity ☐ Dresser ☐ Triple mirror ☐ Full length mirror ☐ Safe ☐

CLOSET AND STORAGE SPACE { for the following number of  
suits \_\_\_\_\_, dresses \_\_\_\_\_, hats \_\_\_\_\_, coats \_\_\_\_\_, shoes \_\_\_\_\_, sport clothes \_\_\_\_\_,  
Other clothing (list) \_\_\_\_\_

SPECIAL FURNITURE OR EQUIPMENT (list) Mothproof storage space ☐ Fireplace ☐ Telephone ☐ Radio ☐

MR. \_\_\_\_\_

BUSINESS OR PROFESSION \_\_\_\_\_ Office work at home requires space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

HOBBIES OR COLLECTIONS (list) \_\_\_\_\_ Requires space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

SPORTS (list) \_\_\_\_\_ Requires storage space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

OTHER ACTIVITIES \_\_\_\_\_ Special requirements \_\_\_\_\_

SLEEPING { Separate bed room ☐ Shared with \_\_\_\_\_ Size of room desired \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.  
Beds: twin ☐ double ☐ single ☐ sleeping porch ☐ Windows open N ☐ S ☐ E ☐ W ☐  
Other comments \_\_\_\_\_

DRESSING { Separate dressing room ☐ Combined dressing room and bath ☐ Combined dressing room and  
wardrobe ☐ Dresser ☐ Mirror ☐ Safe ☐ Built-in units (describe their use) \_\_\_\_\_  
\_\_\_\_\_

CLOSET AND STORAGE SPACE for the following number of suits \_\_\_\_\_, shoes \_\_\_\_\_, hats \_\_\_\_\_, coats \_\_\_\_\_,  
Other clothing (list) \_\_\_\_\_

SPECIAL FURNITURE OR EQUIPMENT (list) Mothproof storage space ☐ Fireplace ☐ Telephone ☐ Radio ☐



## CHILDREN

NAME \_\_\_\_\_ AGE \_\_\_\_\_

HOBBIES AND SPORTS \_\_\_\_\_ Requires space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

WORK OR STUDY SPACE REQUIRED \_\_\_\_\_ FT. BY \_\_\_\_\_ FT. Storage space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

SLEEPING. Separate bed room ☐ Shared with \_\_\_\_\_ Desired size \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

Bed: Single ☐ Double ☐ Twin ☐ Single bunk ☐ Double deck bunk ☐ Windows open N ☐ S ☐ E ☐ W ☐

DRESSING. Separate dressing room ☐ Built-in units \_\_\_\_\_

CLOSET AND STORAGE SPACE for the following number of suits \_\_\_\_\_, dresses \_\_\_\_\_, hats \_\_\_\_\_, coats \_\_\_\_\_, shoes \_\_\_\_\_

Also space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT. for storage of toys and games \_\_\_\_\_

SPECIAL FURNITURE (list) \_\_\_\_\_

NAME \_\_\_\_\_ AGE \_\_\_\_\_

HOBBIES AND SPORTS \_\_\_\_\_ Requires space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

WORK OR STUDY SPACE REQUIRED \_\_\_\_\_ FT. BY \_\_\_\_\_ FT. Storage space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

SLEEPING. Separate bed room ☐ Shared with \_\_\_\_\_ Desired size \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

Bed: Single ☐ Double ☐ Twin ☐ Single bunk ☐ Double deck bunk ☐ Windows open N ☐ S ☐ E ☐ W ☐

DRESSING. Separate dressing room ☐ Built-in units \_\_\_\_\_

CLOSET AND STORAGE SPACE for the following number of suits \_\_\_\_\_, dresses \_\_\_\_\_, hats \_\_\_\_\_, coats \_\_\_\_\_, shoes \_\_\_\_\_

Also space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT. for storage of toys and games \_\_\_\_\_

SPECIAL FURNITURE (list) \_\_\_\_\_

NAME \_\_\_\_\_ AGE \_\_\_\_\_

HOBBIES AND SPORTS \_\_\_\_\_ Requires space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

WORK OR STUDY SPACE REQUIRED \_\_\_\_\_ FT. BY \_\_\_\_\_ FT. Storage space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

SLEEPING. Separate bed room ☐ Shared with \_\_\_\_\_ Desired size \_\_\_\_\_ FT. BY \_\_\_\_\_ FT.

Bed: Single ☐ Double ☐ Twin ☐ Single bunk ☐ Double deck bunk ☐ Windows open N ☐ S ☐ E ☐ W ☐

DRESSING. Separate dressing room ☐ Built-in units \_\_\_\_\_

CLOSET AND STORAGE SPACE for the following number of suits \_\_\_\_\_, dresses \_\_\_\_\_, hats \_\_\_\_\_, coats \_\_\_\_\_, shoes \_\_\_\_\_

Also space \_\_\_\_\_ FT. BY \_\_\_\_\_ FT. for storage of toys and games \_\_\_\_\_

SPECIAL FURNITURE (list) \_\_\_\_\_

OTHER RESIDENT (name) \_\_\_\_\_ Relationship \_\_\_\_\_

SPECIAL CONSIDERATIONS \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# Needs and Requirements Check List

## GROUP ACTIVITIES

TYPES OF ENTERTAINMENT: (maximum number of guests to be filled in blanks)

DINNERS.....	MUSICALS.....	TEAS.....
CLUB MEETINGS.....	LUNCHEONS.....	GARDEN PARTIES.....
HOME MOVIES.....	DANCES.....	GAMES (children).....
CARD PARTIES.....	BUFFET SUPPERS.....	TELEVISION.....

## GENERAL REQUIREMENTS SUMMARY

LIVING ROOM Size \_\_\_\_ FT. BY \_\_\_\_ FT. Ceiling height \_\_\_\_ FT. Living room activities.....

Is close relation between indoor and outdoor living spaces desired YES ☐ NO ☐

DINING ROOM Size \_\_\_\_ FT. BY \_\_\_\_ FT. Separate ☐ Combined with.....

LIBRARY OR DEN Size \_\_\_\_ FT. BY \_\_\_\_ FT. How many feet of shelving..... Fireplace ☐

POWDER ROOM Size \_\_\_\_ FT. BY \_\_\_\_ FT. Lavatory ☐ with door to.....

GAME ROOM Size \_\_\_\_ FT. BY \_\_\_\_ FT. Where located.....

Special requirements.....

GARAGE Number of cars \_\_\_\_ Other uses: Work bench ☐ Garden Tools ☐ Bicycles ☐

Storage for.....

OUTDOOR LIVING AREAS DESIRED Covered porch ☐ Screened porch ☐ Terraces ☐ Upper level sun decks ☐

Green house ☐ Sun room ☐

STYLE OF HOUSE DESIRED (Type of architecture).....

One story house ☐ Two story house ☐ Is basement desired YES ☐ NO ☐

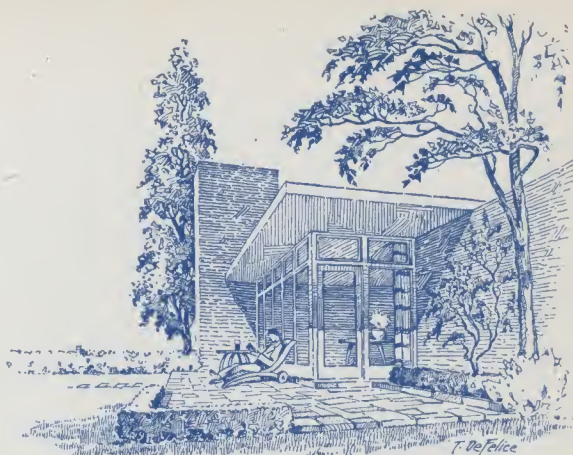
USES OF BASEMENT Hobby shop ☐ Home work shop ☐ Game room ☐ Photographic dark room ☐

Storage for.....

SPECIAL CONSIDERATIONS .....



## Your land and your home...



You probably have your lot but if you haven't one already, two questions should keep running through your mind—Do we like this community? and will such-and-such a site be suitable for the house we have in mind?

Around the question of neighborhood cluster a number of considerations:

- a. Have we friends in the neighborhood or are we going to like the people who live here? Are their children our children's ages?
- b. Is it handy to stores, schools, buses, places of worship and all the things which go with family life?
- c. Is it an up-and-coming neighborhood, crisp and neat, showing community pride?
- d. Are there the services which we shall require like electricity and gas, water and sewers, surfaced roads, pavements, fire and police protection, etc.? These last have a bearing on your insurance rates.
- e. Is it acceptable for a mortgage? (Remember this will affect your loan.)

For the budget, note that the price of urban or suburban land usually should not exceed 20 per cent of your over-all expenditure. In the country it may be as low as 5 per cent, but there you will probably have to install some of your own services, dig a well and sewage system, bring in or make electricity, even build a road.

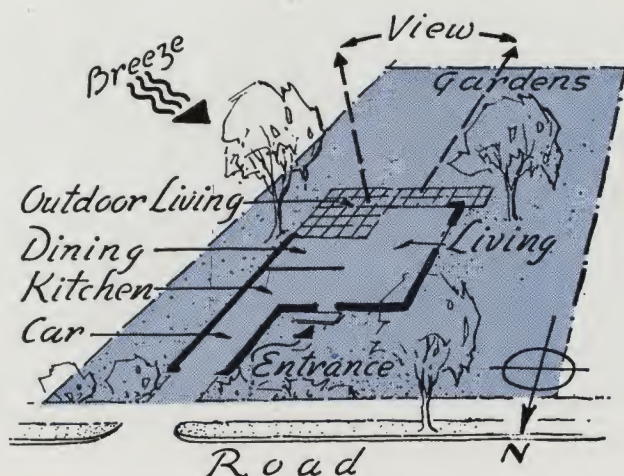
To go back to the second of the crucial questions, the suitability of the site to your house, you may find your land before you begin designing your home or you may begin planning your home and then find your lot. Either way

the site and the building must be treated so that they end up in the closest possible harmony.

Where the house will stand and which way it will face come under the head of *orientation*. What that means to you is planning to make the most of the view, of the sun throughout the day, and of the prevailing breeze. Also to get the most privacy. Home building experience shows that in general it's good to have living rooms face south, southeast, or east, the kitchen any direction but west (to avoid the broiling late afternoon sun), workrooms in a northerly direction (uniform, unglaring light). Bedrooms, used largely at night, can face any direction, but look out for eastward windows at the foot of your beds if you don't mean to get up with the birds. The diagram below shows how rooms can be arranged suitably as far as the compass goes.

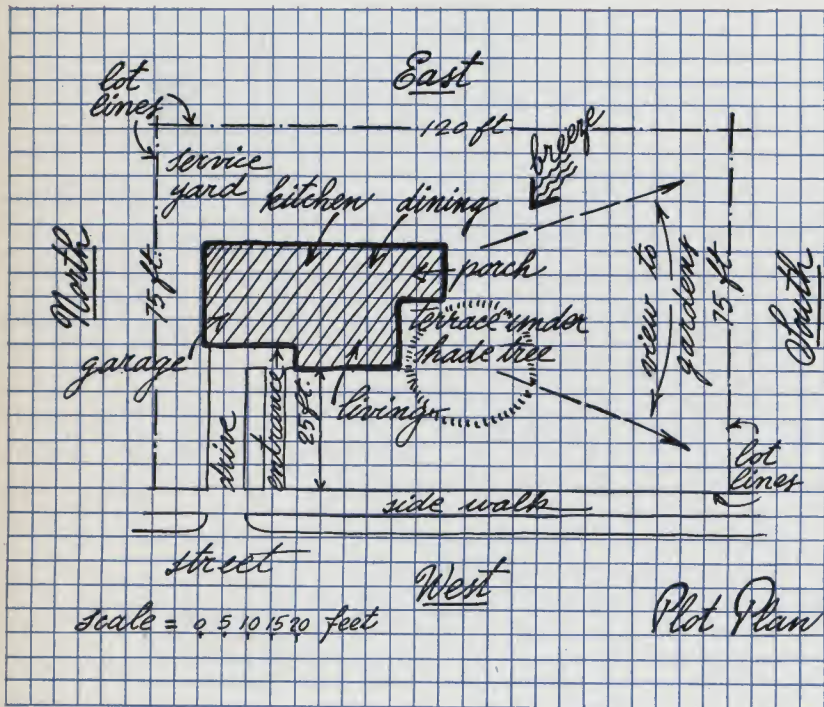
But there are other considerations. A house planned for a level lot is unfitted to take advantage of certain charming features which can be devised for a hillside site, and vice versa. One treatment, ideal for a corner lot, may lose all validity on an inside lot. And don't forget the landscaping possibilities, where you will have a garden, lawn, play-space, outdoor living areas, and where trees will be to give shade or privacy.

Finally there is a slightly intangible factor which is still terribly important. The kind of community you're moving into and the kind of lot you're building on may decide the plan and style of your house. It would be poor taste to build a house out of keeping with the neighborhood in style, size or cost. But let's get on with our planning.





## You draw a plan...

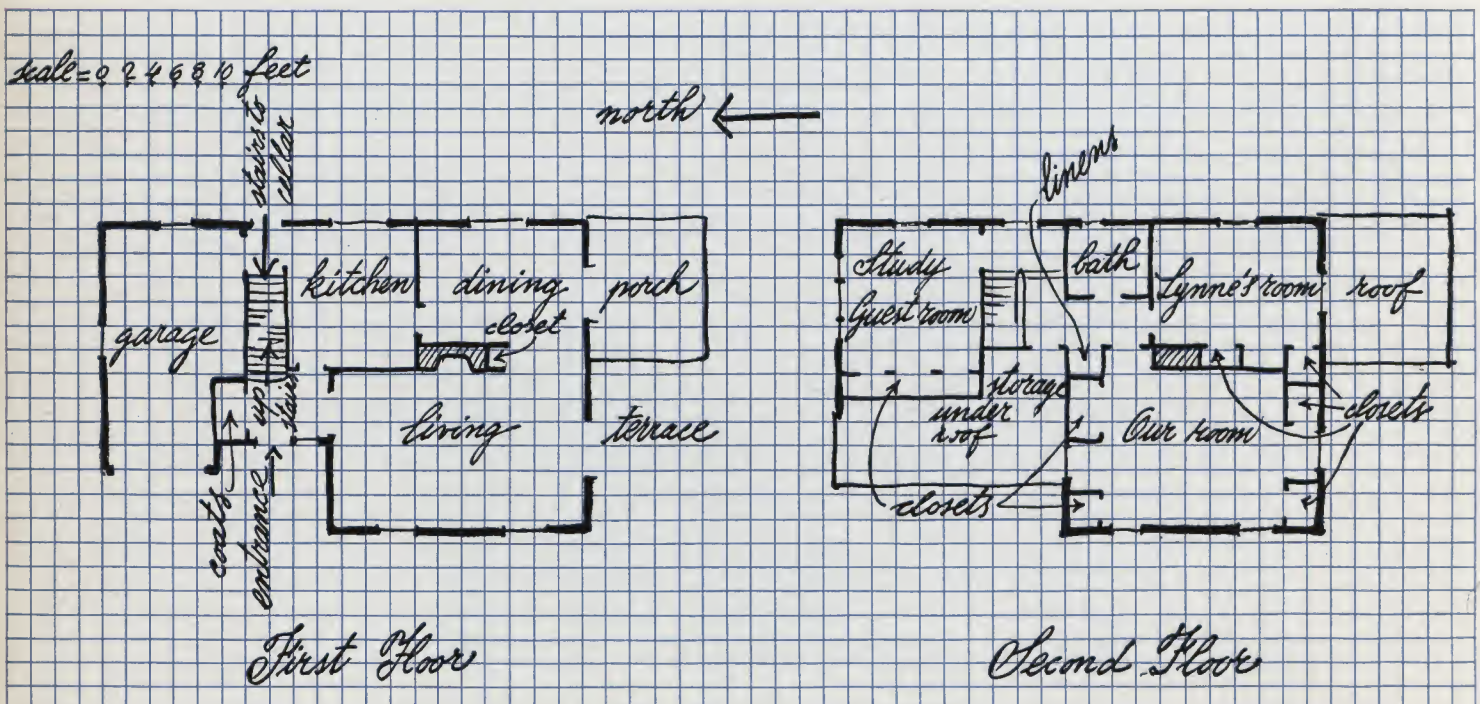


The easiest and most accurate way to set about making rough plans is on cross-section or graph paper. It is ruled into  $\frac{1}{8}$  inch squares by light blue lines. You can buy it by the sheet or the pad at your stationer's.

Decide on a scale. A square on the paper to indicate a square foot of house is handy. But if you make the sides of two squares equal one foot, you have  $\frac{1}{4}$  inch scale, and the furniture drawings on page 10 may be traced and cut out so that you may fit them onto your plans. "Quarter inch scale" means that  $\frac{1}{4}$  inch measured on paper indicates 1 foot in the actual house.

Don't bother with refinements like thickness of walls. Your architectural expert can take care of all that. What you are after is general proportions and relationship of rooms to each other on the lot. To arrive at this you will first have to make a plot plan. Here you will naturally employ a smaller scale, the side of a square equalling perhaps 5 feet. Besides putting the points of the compass where they belong, indicate prevailing wind, sun, view and other orientation factors. So start with plot plan to decide on the general location of the rooms in relation to sun, wind, view, street, etc. (See diagram, left.)

Then at a larger scale ( $\frac{1}{8}$ " = 1 foot is good for





these preliminary schematic plan sketches) begin with the living room, the room which will be the center of your lives, and fit the parts of the house to that. It is no more important than any other room, but it seizes the imagination, for it is the heart and holds the hearth.

When you have a plan scheme that seems about right at this scale—draw it at quarter inch scale and arrange your furniture “cut-outs” on the plan. This will help locate doors and windows so there will be wall-space and clearance space. Your final working drawings and blue prints will be at this scale too. (“Cut-outs” are shown on page 10.)

Turn to the check lists which will remind you of many planning features vital to the smooth running of the whole house.

Sketches show a plot plan and a rough house plan drawn on cross-section paper. They do not include every last detail which will go into your house, but they do have the main design elements. You may be sure, in using them as an additional check, and in following a similar method you will be crystallizing your ideas in the logical way.

## *ABC's of planning . . .*

Your house is taking form. You have checked the Needs and Requirements List. You know the number of rooms you will have, about where they will be, something about their size. Now you can get down to studying whether your room layouts are going to work. The best way to discover this is by asking yourself what you will want to do in any one room, and then seeing whether you can do it as you've set it up.

Front hall first. Can it be reached under cover from a car on rainy days? Does it prevent casual callers seeing all that goes on in the living room? Does it also prevent chilly drafts? Does it have adequate closet accommodations where outer garments and overshoes can be put? Can the floor be freed of mud and dampness easily? Long halls are not only inconvenient, they're also expensive since the more compact the final plan, the shorter the outside walls.

At times the living room is a place for entertaining. Can a group gather cozily around the fireplace, play games? Have you provided storage space for game equipment? Will a gathering of friends divide up naturally into friendly groups as your furniture is placed?

At other times the living room may mean a place for reading, sewing, doing homework, keeping house accounts. Is there place for the easy chairs, sofas, tables, desk, for

doing these things? Room for armchair tables? Well located outlets for the right lighting without interminable and entangling electric cords? Have you ample shelf space for collections, if you're a family of hobbies? Built-in cabinets for albums or phonograph records?

The dining room is far less flexible and so less complicated to arrange, but it takes some doing. The big decision to make here is whether it will be an integral part of living room or kitchen, or a room of its own. Either way you won't want the dining room table any further from the range than need be and you must have china-linen-glass-silver storage areas handy. Be sure, too, that you leave adequate lanes for serving.

The kitchen has become a scientifically planned food preparation center, and so a delight to work in. Appliance manufacturers have engineered it to a state of wonderful exactness. Unless you have strong convictions about special features, the home owner cannot do better than to study the basic layouts they have evolved (see pages 16 and 17), designed to fit snugly into various shaped spaces. But you must decide where the laundry is to be done, and whether the basement will be handed over to the youngsters for entertaining, used as a workshop, or store room, or both. Where will you place your heating units?

When you get to the bedrooms, be sure you leave ample, unbroken wall areas for bed heads, dressers and dressing tables. Do have enough free floor space for a slipper chair or two. Readers-in-bed will make sure of the electric outlets so that reading lamps can be just right.

Have you left room in the bathroom for a generous clothes hamper? Will the medicine chest be big enough for accumulating adhesive rolls and cough syrups? Is the linen closet near at hand? Are there outlets for your electric razor, the electric heater and such?

Take great pains in all rooms to see that light switches are placed where they seem handiest to you. Be sure steps are brightly lit for safety. Finally garner every inch you can for storage. Closets and store rooms can make all the difference between comfort and crowding. Closets designed and equipped for the things they will store save lots of space.

In order that you may allow adequate space for various pieces of furniture, a page has been devoted to ¼ inch scale diagrams from which you can trace cutouts. Dimensions are average, but many variations in size do occur, so do not take these as final. Cut out the furniture diagrams from your tracings, making as many duplicates as you need. Then test the workings of your ¼" scale plan by arranging the furniture cut-outs in the rooms. It is a good idea to fill out the check lists for each room first.



# Typical Furniture Pieces

## LIVING ROOM

SCALE :  $\frac{1}{4}" = 1'-0"$

L = LENGTH • D = DEPTH • H = HEIGHT •

### CHAIRS



L 2'-6"  
D 3'-0"  
H 3'-0"



L 2'-3"  
D 2'-6"  
H 3'-0"



L 2'-6"  
D 2'-6"  
H 3'-0"



SIDE  
BRIDGE  
OR DESK  
L 1'-6"  
D 1'-6"  
H 2'-6"

### SOFAS



SMALL  
L 6'-0"  
D 2'-6"  
H 3'-0"

LARGE  
L 7'-0"  
D 3'-0"  
H 3'-0"

### LOVE SEATS



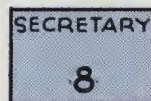
SMALL  
L 3'-6"  
D 2'-0"  
H 2'-3"

LARGE  
L 4'-6"  
D 2'-6"  
H 3'-0"

### DESKS



L 4'-0" TO 6'-0"  
D 2'-0" TO 3'-0"  
H 2'-6"

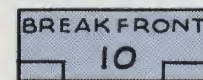


L 2'-8" TO 3'-8"  
D 1'-6" TO 2'-0"  
H 6'-2" TO 7'-2"



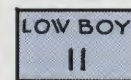
L 2'-8" TO 3'-8"  
D 1'-6" TO 2'-0"  
H 3'-6"

### BOOK CASES



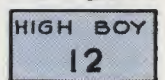
L 4'-0" TO 5'-0"  
D 1'-6"  
H 6'-2" TO 7'-2"

### LOW BOYS



L 2'-6" TO 2'-8"  
D 1'-6" TO 1'-8"  
H 2'-4" TO 3'-2"

### HIGH BOYS



L 3'-0" TO 3'-6"  
D 1'-6" TO 2'-0"  
H 5'-0" TO 7'-0"

### TABLES



L 2'-0"  
D 1'-3"  
H 2'-0"



L 1'-8"  
D 1'-8"  
H 2'-0"

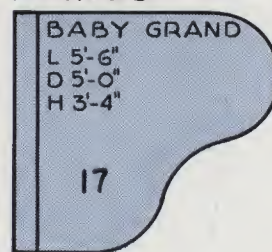


L 2'-2" TO 3'-0"  
D 1'-8" TO 2'-0"  
H 1'-6"

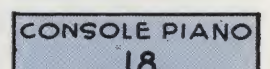


L 2'-6" TO 3'-0"  
D 2'-6" TO 3'-0"  
H 2'-6"

### PIANOS



L 5'-6"  
D 5'-0"  
H 3'-4"



L 5'-0" D 2'-0" H 4'-3"

### MINIATURE PIANO

L 4'-8"  
D 1'-7"  
H 3'-0"



DIAM. 2'-6" TO 3'-0"  
H 1'-4" TO 1'-8"



DIAM. 2'-4" TO 3'-0"  
H 2'-3" TO 2'-6"



DIAM. 2'-0"  
H 2'-1" TO 2'-7"

### GRAND PIANO

L 5'-6" TO 9'-0"  
D 5'-0"  
H 3'-4"



28

3'-0" x 5'-0"

L 3'-6" TO 8'-0"  
D 2'-6" TO 4'-0"  
H 2'-6"

ROUND TABLES  
2'-7" TO 5'-9" DIAM.

## DINING ROOM

### CHAIRS



L 1'-6"  
D 1'-6"  
H 2'-6"

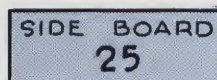


L 2'-0"  
D 2'-0"  
H 2'-6"

### SERVERS



L 2'-6" TO 3'-6"  
D 1'-2" TO 1'-9"  
H 2'-8" TO 3'-0"



L 4'-0" TO 6'-6"  
D 1'-5" TO 2'-1"  
H 3'-2"

### CHINA CABINETS



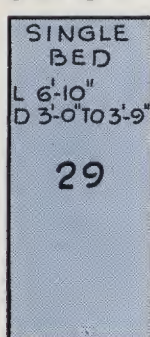
L 2'-8" TO 4'-0"  
D 1'-2" TO 1'-9"  
H 5'-2" TO 6'-2"



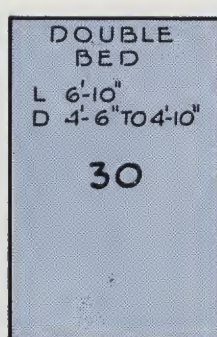
L 3'-0"  
D 1'-6"  
H 5'-8"

## BED ROOM

### BEDS



L 6'-10"  
D 3'-0" TO 3'-9"



L 6'-10"  
D 4'-6" TO 4'-10"

### CHAIRS

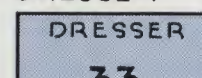


L 1'-6"  
D 1'-6"  
H 2'-6"



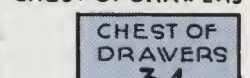
L 2'-0" TO 2'-10"  
D 2'-0" TO 3'-2"  
H 2'-6"

### DRESSER



L 3'-0" TO 4'-0"  
D 1'-6" TO 2'-0"  
H 2'-10" TO 3'-1"

### CHEST OF DRAWERS



L 2'-8" TO 3'-4"  
D 1'-6" TO 1'-9"  
H 3'-8" TO 4'-8"

### TABLES

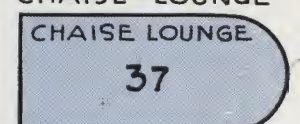


L 1'-2" TO 2'-0"  
D 1'-2" TO 2'-0"  
H 2'-6"



L 3'-0" TO 4'-0"  
D 1'-6" TO 1'-10"  
H 2'-6"

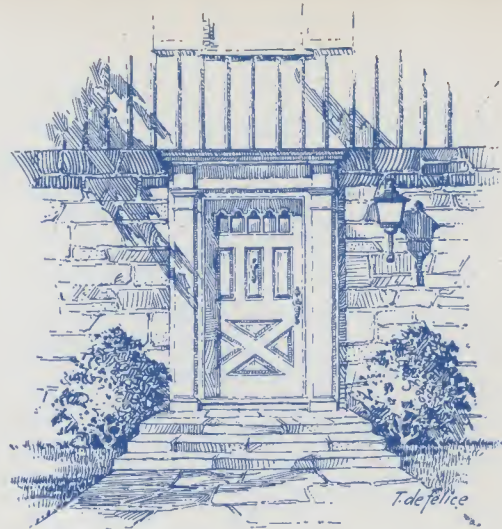
### CHAISE LOUNGE



L 4'-0" TO 5'-6"  
D 2'-0" TO 2'-6" H 2'-6"



## Entrances, Hall or Foyer...



The entrance hall of your home says, "Welcome". It gives the invaluable first impression. So don't let it be cramped, colorless, impersonal. Make it attractive as well as useful. The foyer affords privacy for the rooms beyond. It cuts off drafts. It usually has a closet where hats and coats, umbrellas and galoshes and such are kept. Even better, if your budget permits, there is a downstairs lavatory off it, with room for a dressing table and full length mirror.

The foyer takes hard wear, people coming in out of all weathers. Plan a floor which can take it. Also, have the entrance well heated.

The main trouble in making a successful entrance hall is that its walls must be broken by so many doors. Try to group these so that they are orderly. And save at least one

length of wall for a chair or bench where anyone who must wait can be seated. Reserve space for a small but terribly useful table, for door chimes, for telephone stand. And plan the lighting with care.

If it is humanly possible, devise the placing of your garage so it leads into your house, so you can get to the kitchen with packages without going outdoors.

The service entrance must be considered too, placed where it will be convenient for deliveries to be made but not so conspicuous that it will detract from the front entrance. At the side or the back is usually best. And near it you will need a neat concealed place for the receptacles for waste and garbage. Many an otherwise good looking house is unsightly because these things were not thought of.

### Check List

THE MAIN ENTRANCE WILL BE TO THE NORTH ☐ SOUTH ☐ EAST ☐ WEST ☐

It will be entered from front ☐ side ☐

It will open into a hall ☐ living room ☐ foyer ☐

There will be doors to the clothes closet ☐ living room ☐ dining room ☐

bed room ☐ study ☐ kitchen ☐ powder room ☐

Windows will be fixed ☐ casement ☐ double hung ☐ glass blocks ☐

Lighting will include, wall bracket ☐ ceiling fixture ☐ floor lamp ☐ table lamp ☐ light in closet ☐

Electrical outlets, base plugs ☐ door chimes ☐ switch for outdoor flood lights ☐ telephone ☐ and switches ☐

THE POWDER ROOM WILL BE ENTERED FROM THE hall ☐ separate hall ☐ or from \_\_\_\_\_

Windows will be fixed ☐ double hung ☐ casement ☐ glass blocks ☐

Lighting will be \_\_\_\_\_ Ventilator ☐ \_\_\_\_\_

THE GARAGE DOORS WILL BE upward acting ☐ swinging ☐ folding ☐ sliding ☐ automatic control ☐

The garage will include space for workshop ☐ and additional storage ☐

SPECIAL NOTES \_\_\_\_\_



# The Living Room...

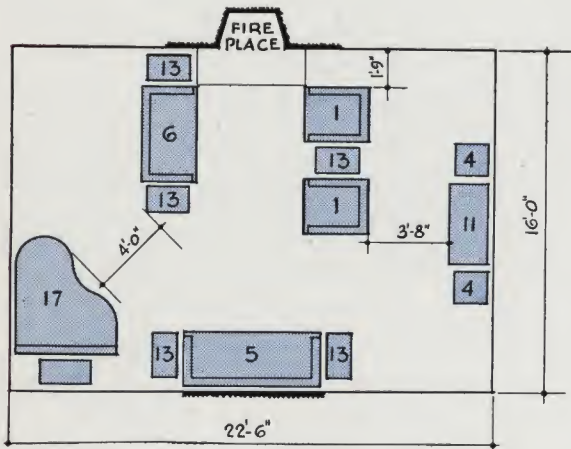
This is the room where you will mostly live, the heart of your home. In it you, as a family, will work and play and entertain your friends. Don't copy Mrs. Charles' living room, even though you had a lovely time there. The Charles live for their music, have the main furniture group around the radio and piano. Your family delights, say, in games. Therefore an entirely different sort of room for living is going to suit you.

But there is one practically universal living room feature you're bound to want. That is the fireplace, the hearth. If possible have it on a window-less wall, since competition with sunlight vitiates the friendly brightness of the fire. Be sure to have it where furniture drawn up around it is

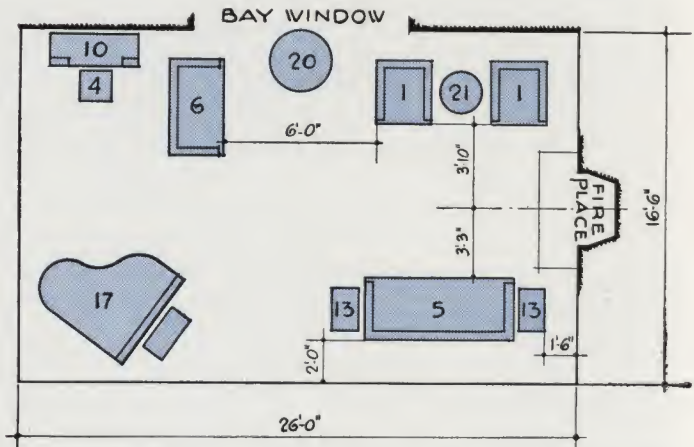
out of main traffic lanes. Allow for a place to store firewood neatly. Remember that your fire will keep you warm as well as content so consider building a heat circulating unit into the fireplace and chimney.

In all parts of the room study your traffic problems as rabidly as though you were a cop. There will be coming and going, of course, but if your living room degenerates into a passageway between front door and back, stairs and kitchen, terrace and dining room, it is a failure. One way to avoid this is to set doors which lead to other parts of the house as close to each other as practical, so that passers-through won't have to tour the whole room.

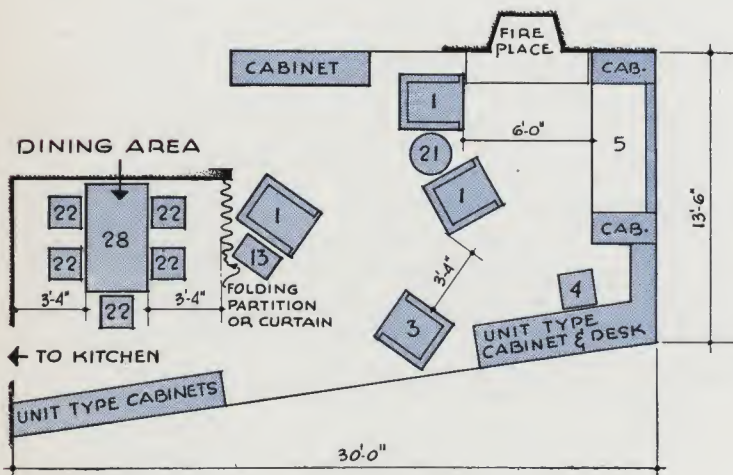
Plan the living room size and shape to accommodate



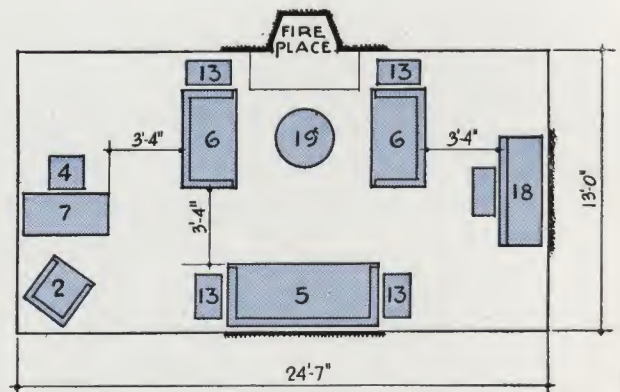
1. Primary furniture is grouped closely about the fireplace. Piano is parallel to wall to provide maximum space in living room.



2. In all the suggested plans shown, bay or picture windows may be used as a focal point instead of the fireplace.



3. This plan using non-parallel walls combines living-dining activities and provides more than average storage space.



4. Writing or study group at left, music or game group at right, and center primary group, for conversation, tea, relaxation, etc.



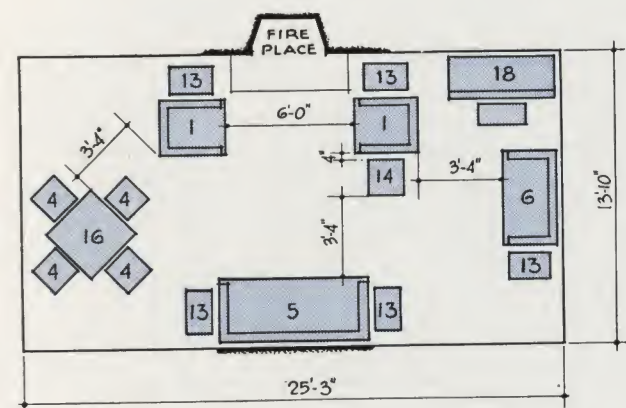
what you will do in this space, games, reading, listening, talking, sewing, etc. In each case make room for a group so you can sit down together. Also provide storage room for special purpose tables, portfolios, games and the rest.

This sounds as though the living room were going to have to be enormous, but furniture groupings can be used for more than one purpose. Under-scaled rather than over-scaled pieces of furniture will help to consolidate space. Orderly arrangement is the real key to getting a lot of living from every square foot. It can be arrived at only by the most careful planning, the most searching discussion.

Whether your room be small or large, it should look right, serene. This is achieved in part by having good pro-

portions of length to width to height. Here your trained expert will know the answers. But to help you in rough planning, a room whose width is to its length as 3 to 4, or 4 to 5, is in good proportion and your expert will work out the proper ceiling height.

On page 10 are scale plans of furniture you may want to have. The outline drawings are for you to trace and cut out and arrange on your plan, so that you can experiment with placement. They are scaled  $\frac{1}{4}$  inch to the foot and represent standard, though not invariable furniture sizes. Windows and doors do not appear on the plans shown, but heavy lines indicate best positions for unbroken walls in relation to furniture groupings.



5. Game-table group occupies almost the same floor area as a baby grand piano. Placement at an angle is intended for informal rooms.

*Scale of drawings in feet*



## Check List

Mark ? for further consideration.

Mark  $\checkmark$  if O.K. for plans.

The general exposure of the living room will be

SOUTH ☐ EAST ☐ NORTH ☐ WEST ☐

The principal view will be towards the

garden ☐ street ☐

Entrances to room from hall ☐ kitchen ☐ study ☐

terrace ☐ porch ☐

Windows: casement ☐ double hung ☐ fixed ☐

sliding ☐ picture windows ☐

french doors ☐ glass block ☐

Lighting: wall brackets ☐ floor lamps ☐

table lamps ☐ cove lighting ☐ spot lights ☐

Adequate electrical outlets: radio ☐ lamps ☐

clock ☐ telephone ☐ Servants' call bell ☐

The fireplace of stone ☐ brick ☐ other ----- equipped with ash dump ☐ log hoist ☐

circulating unit ☐ spark screen ☐ fuel bin ☐ mantel ☐

Unit type furniture will include book shelves ☐ bookcases ☐ storage cabinets ☐ window seats ☐

Adequate space in the living room for chairs: (number of) ----- occasional ☐ club ☐ wing ☐

straight chairs ☐ sofa ☐ love seats ☐ desk ☐

secretary ☐ bookcases ☐ end and coffee tables ☐

Space will also be required for a grand ☐ or upright piano ☐ television set ☐ radio ☐

other musical instruments -----

Movie projector and screen ☐ (See also "Closets" page 19)



# Dining Room or Area...

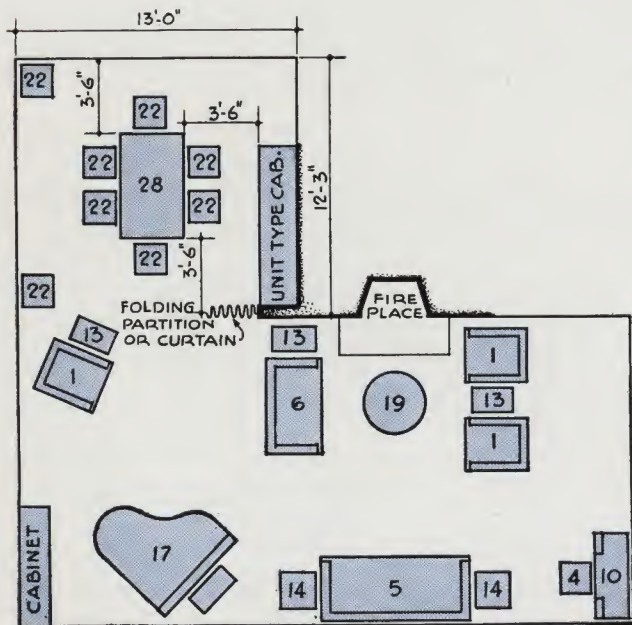
Will your dining room be a part of your living room, or separate? If it's part of the living room, an "L" plan will work well, the dining area curtained or divided off by sliding partitions or folding screens. This way, table setting or clearing may be shut off, or the area made part of the living room between meals.

Wherever you do eat you will want: (a) adequate lanes for serving, (b) minimum distance between range and

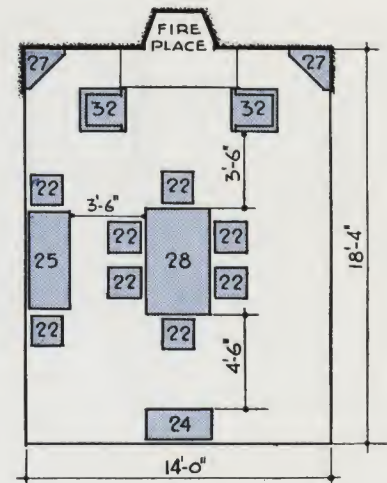
table, with serving surfaces between, (c) good, close-at-hand storage space for linens, silver, glass and china.

Several dining room arrangements are shown in the sketches. Here serving lanes are of minimum width. Make them wider if you can.

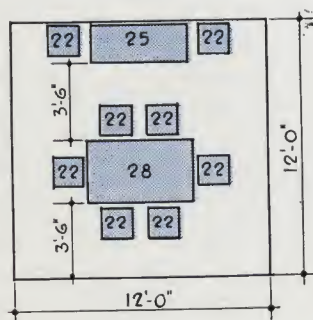
In your family conclaves, ask yourselves whether the dining room will be used for more things than just meals. Will you play games on this table? Will the children study



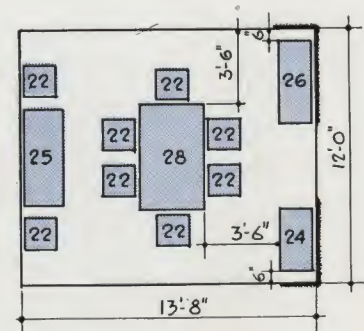
1. This is another example of the combined living-dining room. Unit type cabinet is used for serving and storage—conventional pieces could be substituted.



2. Dining rooms with fireplaces have to be larger than minimum for the comfort of those seated at the table. This is a typical formal suite arrangement suitable only for a large house.



3. Minimum dining room is shown here. A space of two feet is required on one side for the buffet. Three feet additional length is necessary if an extension table is used.



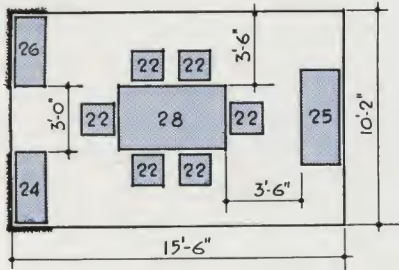
4. The kitchen would be to the right end of this plan. Furniture is located on two walls only making it possible to use this scheme in a living-dining room layout.



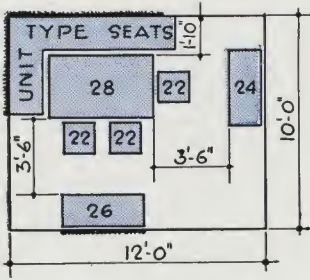
their lessons here? Watch your planning and lighting with the answers to these questions in mind. Make sure, too, that you've plenty of electric outlets for toaster, coffee maker and any other appliances you may be getting. Place these convenient to counter, serving table or sideboard where there is room to operate them efficiently. Incidentally, you must think ahead about furniture like buffets, cabinets and the like, and allow wall space enough so that

they will fit. If space is limited, unit-type cabinets, which utilize every inch, are worth considering.

Consider having a "pass cabinet" opening from kitchen or pantry into the dining area through which dishes and trays can be passed. Under the "pass cabinet" can be a counter to serve as breakfast or snack bar, saving no end of work. Work saving and step saving features are mighty important and now is the time to put them in your plans.



5. A long narrow dining room results when wall pieces are at the ends, and an end entrance from the kitchen is needed, with wider doors from living room.



6. Spaces smaller than the usual minimum can be utilized if unit type seats are included, but seating and table-service comfort are sacrificed to some extent.

# Check List

Mark ? for further consideration.  
Mark ✓ if O. K. for plans.

The general exposure will be NORTH ☐ SOUTH ☐ EAST ☐ WEST ☐

Doors open into it from— hall ☐ living room ☐ kitchen ☐

pantry ☐ terrace ☐ breakfast room ☐

Dining room will be separate ☐ combined with-----

Separation by folding partitions ☐ drapery ☐ screens ☐ doors ☐

It will serve-----people. Size of table----- rectangular ☐ round ☐

Unit type furniture, china cabinets ☐ food or beverage bar ☐ benches ☐

Space for-----chairs, china closet ☐ table ☐ server ☐

buffet ☐ tea wagon ☐

Windows: casement ☐ double hung ☐ fixed ☐ sliding ☐

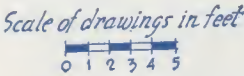
french doors ☐ glass block ☐

Lighting: cove ☐ drop fixture ☐ wall brackets ☐

Electrical outlets for perculator ☐ grill ☐ toaster ☐

illuminated table piece ☐ radio ☐ telephone ☐

Call bell or table chime ☐





# The Kitchen...

The lady of the house may well spend more time in her kitchen than any place else, so she will want it not only efficient, but also charming.

You can have a kitchen as compact and ship-shape as the galley of a yacht if you want but the trend is toward more spacious kitchens rather than smaller, but with space that is useful as well as pleasant. An informal dining corner or snack-bar is not only convenient and time-saving but can be made colorful and gay. It would be useful too as a meal-planning "kitchen office" and a place for relaxing or reading while keeping an eye or ear on the pressure cooker. Here you can keep your cookbooks, recipe cards, records and perhaps a radio.

One end of the kitchen can be divided off with a folding gate to make an easily watched play-area for the little tots. By careful planning the laundry with its labor saving machines can be combined with the kitchen in such a way that one function will not interfere with the other.

There are so many different ways of developing your kitchen into an efficient, attractive, interesting multi-purpose room that they can only be suggested here. But there are a few principles for planning the food-preparation part of the kitchen that will save untold steps and time.

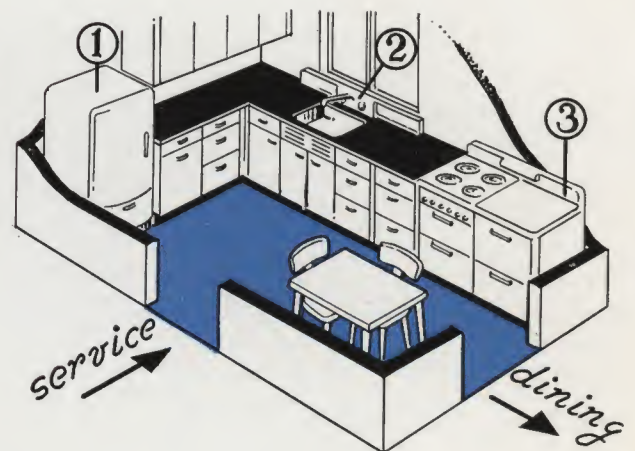
For efficiency, it has been discovered that the best way to plan is by "use-areas." There are three: (1) for food storage, (2) for food preparation and clean-up and (3) for cooking and serving. Start at the service entrance, through which food enters your house and put (1) nearest to it. Thus the hamburgers and eggs will go directly into the refrigerator, vegetables into bins, staples into cabinets. Next comes (2), of which the focal center is the sink with drain boards, counters, cabinets and drawers for utensils. The last, (3), is furthest from the back door and nearest to the serving counter or pantry or dining room.

Each of the three stages of meal making requires its own equipment, which will be grouped where it's needed. For instance, your spice assortment close by or over the stove, your vegetable brushes at the sink. You will be glad to have counters in all areas, a place to put your packages down by the door while you take off your hat, a place to put the eggs and bacon while you fish the toast out of the toaster.

Much equipment goes in cabinets and drawers under and over the counters. Plan their placement with a woman's height and arm-reach in mind. See, too, that you allow plenty of clearance for working comfortably between counter top and cabinet bottom.



An efficient plan having three adjoining walls; refrigerator (1) and cabinets for staples are near the back door. On the next wall are sink and counters (2) for cleaning and preparing the food for cooking. The third working wall takes the range (3) and serving space.



A kitchen plan for a space where there are only two adjoining walls free for equipment. The sequence of operations is still the same: Store, Prepare, Cook, Serve, Clean Up, Put Away. Breakfast table may be installed on one of the two remaining walls.



## Check List

Mark ? for further consideration. Mark ✓ if O. K. for plans.

KITCHEN ON THE NORTH ☐ SOUTH ☐  
EAST ☐ WEST ☐ side of the house

DOORS INTO IT FROM the service entrance ☐ garage ☐  
back stairs ☐ basement ☐ dining room ☐  
hall ☐ living room ☐ maid's room ☐  
pantry ☐ laundry ☐

WINDOWS: casement ☐ double hung ☐ fixed ☐  
sliding ☐ glass block ☐

### ELECTRICAL LIGHTING OUTLETS FOR:

ceiling fixture ☐ lights under wall cabinets ☐  
over sink ☐ over range ☐

other work centers \_\_\_\_\_  
automatic cupboard lights ☐

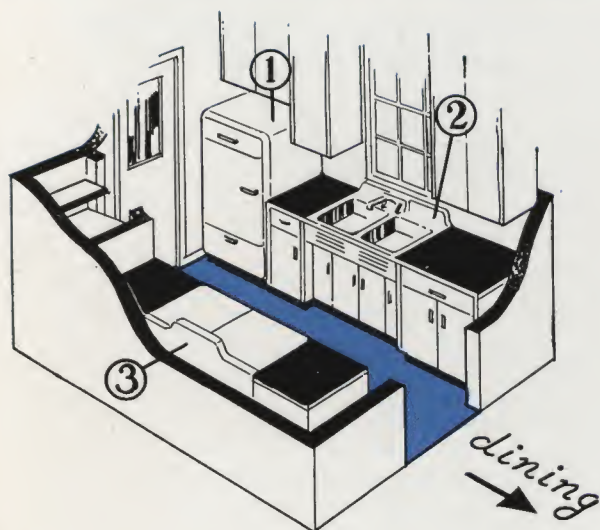
ELECTRICAL OUTLETS FOR range ☐ refrigerator ☐  
freezer ☐ toaster ☐ mixers and extractors ☐  
coffee maker ☐ waffle iron ☐ plate warmer ☐  
washing machine ☐ mangle or ironer ☐ iron ☐  
telephone ☐ clock ☐ radio ☐  
entrance call signals ☐ pilot switch to basement ☐  
other equipment \_\_\_\_\_

### KITCHEN UNITS WILL INCLUDE:

sink; double ☐ single ☐  
combined sink and laundry tray ☐ cupboards ☐  
cabinets ☐ drop table ☐ ironing board ☐  
cleaning equipment closet ☐ storage ☐

### MECHANICAL AND ELECTRICAL EQUIPMENT:

dishwasher ☐ garbage disposer ☐  
range: electric ☐ gas ☐ coal ☐ oil ☐  
water heater: electric ☐ gas ☐ coal ☐ oil ☐  
ventilators ☐ refrigerator: gas ☐ electric ☐  
food freezer ☐ incinerator ☐



This kitchen has work areas on the facing walls, but as always, the three main steps of meal getting progress from back door to dining room door. This plan is compact and convenient, but does not allow for a breakfast table or other furniture, such as a work desk.



# The Laundry...

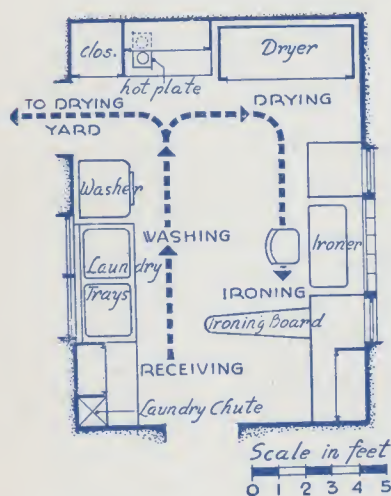
The amount of laundry equipment you can fit into a kitchen may prove inadequate and the collisions between washing and cooking on laundry day would be inconvenient. Also the resale value of your house probably will be greater if you have a separate laundry. So include it in your plans from the first if you can. It can also be the sewing room where clothes are mended before they're ironed.

Today's best laundries have four main pieces of equipment: The washing machine, the clothes dryer, the ironer or mangle and the ironing board. Add to these a hamper into which the soiled linen chute empties, a sorting table or counter, cabinets for supplies, a hot plate for boiling linens and making starch, and you can see that you'll need plenty of room, neatly planned.

Where laundry planning calls for clearest thinking is in its wiring. In the first place, it must obviously be flooded with revealing but not glaring light. What is more, localized lights should make it possible to examine clothes with an eagle eye at all stages. It is almost axiomatic that the laundry walls be light in tone to reflect light well.

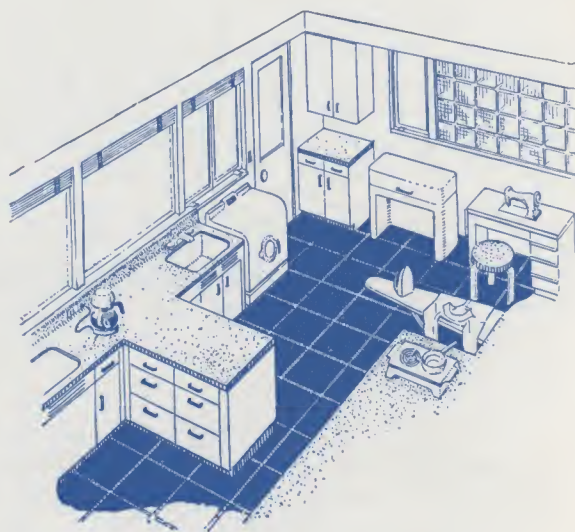
Equipment should be arranged in sequence, as kitchen equipment is. First hamper, work table for sorting (and possibly bins for temporary storage), also supply cabinets. Next, laundry trays and washing machine. The dryer and ironer may be on either the adjoining or the opposite wall. Leave room nearby for a clothes basket for the finished products.

The layout plan and perspective indicate proper spacing of equipment to give you enough elbow room. Don't crowd more equipment into an equal space. The plan drawing shows arrows to indicate travel. By this arrangement you may dry clothes indoors with a gas or electric unit, or outdoors, weather permitting.



Where a separate room is provided, the laundry at left would be ideal. The dotted line indicates the course of travel while doing the laundry work.

The combined kitchen-laundry-sewing room at right shows a possible multi-purpose arrangement. The laundry end could be closed off with a gate and used as a play area.



## Check List

THE LAUNDRY WILL BE LOCATED ON the first floor ☐ basement ☐

It will serve a dual purpose as sewing room ☐ children's play room ☐ game room ☐

WINDOWS: casement ☐ double hung ☐ fixed ☐ sliding ☐ glass block ☐

LIGHTING: ceiling fixture ☐ strip lighting ☐ wall brackets ☐

ELECTRICAL OUTLETS FOR: electric clock ☐ floor and table lamps ☐ hot plate ☐ iron ☐  
ironer ☐ dryer ☐ food freezer ☐ ventilator ☐

EQUIPMENT WILL INCLUDE: sink ☐ laundry tubs ☐ ironer ☐ washing machine ☐  
dryer ☐ gas ☐ electric ☐ hot plate ☐ gas ☐ electric ☐ ventilator ☐

BUILT-IN UNITS WILL INCLUDE: cabinets ☐ drying racks ☐ clothes chute ☐  
hamper for storing and sorting clothes ☐ ironing board ☐  
supply shelves ☐ work tops for sorting and sprinkling ☐

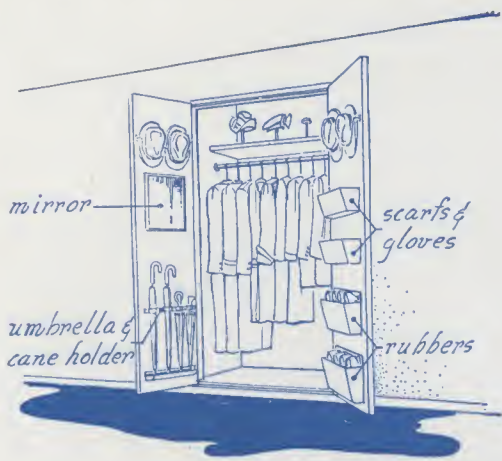


# Closets . . .

Closet strategy has become as scientifically perfect as kitchen strategy, and wonderful equipment is available to heighten its effectiveness: racks, bars, sliding trays, etc. Still the gear of any one family is complicated and bulky, so do a lot of figuring before you write O.K. on your closet plans.

The standard depth for a closet is 2 feet. Three feet of width is a minimum allowance for one person's clothes. It is scanty, when you take into account summer moth bags, winter furs and the undesirability of sandwiching well-pressed woolens in too close. In any case, add 25 per cent to any space allowance you think right, as a margin of safety. You'll be glad for it.

To get the most from every inch of storage space, have your closet doors the full width of the closet. If they slide,



The hall closet above uses numerous fixtures to get the maximum storage capacity. Such fixtures always help to keep the closet neat and orderly.



This closet has been shown with one set of doors removed in order to illustrate how the space has been divided. Sliding or hinged doors may be used.

they won't eat up space in your rooms. Light the interior so that floor and shelves and hanging sections are bright. Paint or paper in a light color. Be sure walls are well finished, floors meticulously laid. Moths thrive in cracks. Full-length mirrors may be installed to advantage on the inside of hinged closet doors, since being able to move a mirror gives greatest visibility.

Pull-out bins or trays add immeasurably to the ease of keeping the linen closet orderly. They are grand, too, for storing off-season hats, sport shoes and the like. Install clothes rods for children's closets low enough so the young can reach them. A well-arranged closet may develop orderly habits in a child. Anyway it's worth trying.

It is not enough to merely supply closet space, the space must be planned to take each and every item you can think of, must be divided and supplied with the necessary rods, shelves, bins, drawers, holders and compartments, etc., fitted to use all the space to its maximum — literally a place for everything, predetermined.

## Check List

(See also check lists of other rooms)

SPECIAL STORAGE (where possible, give amount of space required)

Screens and storm sash and doors stored where? .....

Awnings stored in .....

Trunks and cases: number ..... stored in .....

Sewing machine stored in .....

Outdoor drying equipment stored in .....

Porch and terrace furniture stored in .....

Sleds, toboggans, canoes stored in .....

Bicycles, velocipedes, scooters stored in .....

Baby carriage, perambulator, etc. stored in .....

Garden tools stored in .....

Surplus goods (unused furniture, books, etc.) stored in .....

Special goods (guns, tents, sails, etc.) stored in .....

Game equipment: card tables stored in .....

folding chairs stored in .....

other bulky units stored in .....

Toy closets (list large toys requiring special storage space, and where stored) .....

Beverages stored in .....

Food freezer and storage in .....



## Bedrooms . . .

There's an oft' forgotten element to take into account when you get to figuring out your bedrooms—the element of noise. Are trucks going to pound down your street in the witching hour? Are growing youngsters going to joggle in jive in the living room while you toss upstairs? Then study the room placing, arrangement and materials.

The master bedroom should be as quiet as may be and yet, paradoxically, should command quick entry to the nursery. If your family is growing, your children entertaining friends, you may be glad if you allow enough space so your room can be a bed-sitting room on occasion. This means a good-sized room. Beds are big. Add to their own length and width, space so you can get to both sides of them when you make them up. It saves a deal of trouble. Allow for bedside tables or units big enough for individual lamps, clocks, books and general impedimenta.

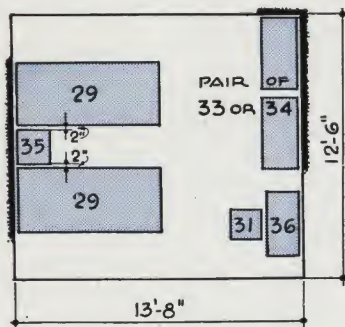
Leave nothing to chance when you plan bedroom wall space. Know to the inch the width of the beds you mean to use and leave ample wall space for them. Don't have

windows so close as to keep you in icy drafts all winter long, or windows at the foot which will bathe you in the full blaze of the rising sun. On the other hand, do try to contrive cross ventilation for steaming nights, and general brightness for days you spend in bed getting over grippe.

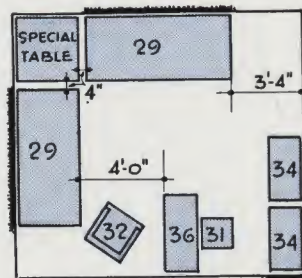
Traffic lanes should be calculated as accurately in the bedroom as in the dining room. You will want free, unblocked access to your closet. If your dressing table cannot be incorporated in your bathroom, it belongs near your closet.

Increasingly parents are planning children's rooms which grow with the children. From a nursery the room becomes a study, then living room of one's own. It is wonderful for your children to be able to have overnight guests, and where room is at a premium, this is feasible with double-decker beds.

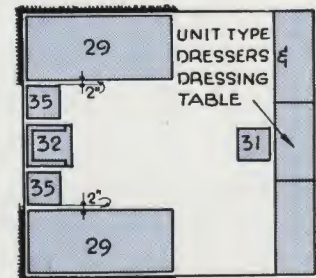
In using the check list with your sketch plans, identify each bedroom first by a letter. Then study each room. Finish checking each room before going on to the next.



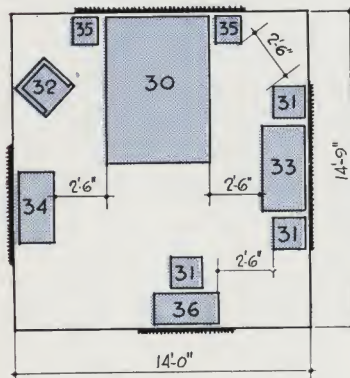
This bedroom has furniture on two walls leaving the other walls free for closets and doors or windows.



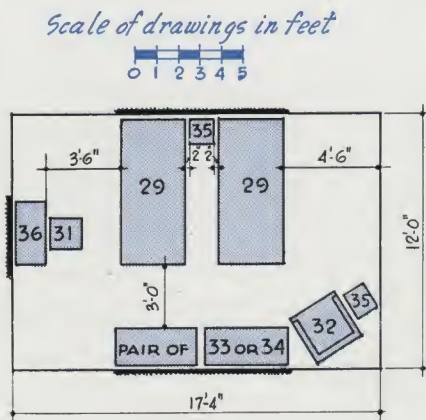
An informal arrangement like this would be suitable for a children's room or study-bedroom.



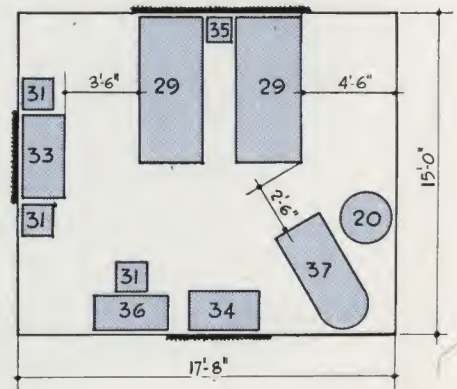
The dressers and dressing table may be beneath windows. Entrance and closet doors opposite each other.



A very nearly square room often permits greater freedom of movement and more convenient arrangement.



With the chair at left of unit cabinets the entire right end of the room could be lined with wardrobe closets.



This bedroom is large enough to permit additional pieces of furniture, including a chaise lounge. Numbers refer to furniture chart.



# Bedroom Check List Mark ? for further consideration. Mark ✓ if O. K. for plans.

## DESIGNATE ON PLAN

A	_____
B	_____
C	_____
D	_____
E	_____
F	_____

TO BE  
OCCUPIED BY

## EXPOSURE:

North						
South						
East						
West						

## DOORS FROM:

Hall						
Private bath						
Other bathroom						
Shared bath						
Sleeping porch						

## WINDOWS:

Casement						
Double hung						
Cross ventilation						

## TYPE AND ARRANGEMENT OF LIGHTING:

Ceiling light						
Floor lamps						
Table lamps						
Wall brackets						

## ELECTRICAL OUTLETS:

Bed light						
Call bell						
Dresser light						
Electric clock						
Door switch for closets						
Night light						
Outside flood lights						
Radio						
Switch for hall						
Telephone						
Vanity mirror						

## BUILT-IN:

Bed						
Bunk						
Clothes closet						
Double-deck bunks						
Dresser						
Folding bed						
Mirror						
Shoe racks						
Vanity						
Wardrobe						

## FURNITURE PROVISIONS:

	A	B	C	D	E	F
Bed or beds						
Bedside table and lamp						
Bookcase						
Cedar chest						
Chaise longue						
Chest of drawers						
Child's play pen						
Crib						
Day bed or couch						
Desk and chair						
Dresser						
Dressing table						
Easy chair						
Floor lamp						
Radio						
Slipper chair						
Study table						

## Dressing Rooms

### DOOR FROM:

Bedroom						
Bath						
Hall						

### WINDOWS:

Casement						
Double hung						

### LIGHTING:

Ceiling light						
Closet light						
Lamps						
Wall brackets						

### BUILT-IN:

Closets						
Dresser						
Vanity						
Wardrobe						
Mirror						

### DUAL USE AS:

Boudoir						
Sewing room						
Storage room						
Study						

### SPECIAL FURNITURE:

(List)						



## Plumbing and Sanitation...

Even for a small family, two bathrooms are mighty convenient and more are better. By placing baths side by side, or directly under one another, they can be made to cost less than if they are far flung, since this way the same piping will supply and drain both sets of fixtures. You can even, by thrifty figuring, get two bathrooms out of one, as the sketch below shows. Only cost is for a partition and one extra fixture, whereas the usefulness of the area is almost doubled.

A big bathroom is a delight, but actually a small one can be nearly as serviceable. Don't let it get smaller than 7 feet by 5½, and 10 by 5½ is much more comfortable. One justification for enlarging your own bathroom is so that you can install cupboards, shelves and dressing table, reducing crowding in bedroom and closets.

Be sure your bathroom is as nearly waterproof as possible. Even if you don't let the tub splash over, condensation will dampen walls and floor. Special wall and floor surfaces, manufactured for the purpose, are not only efficient, but many of them are truly beautiful. Any upped original cost

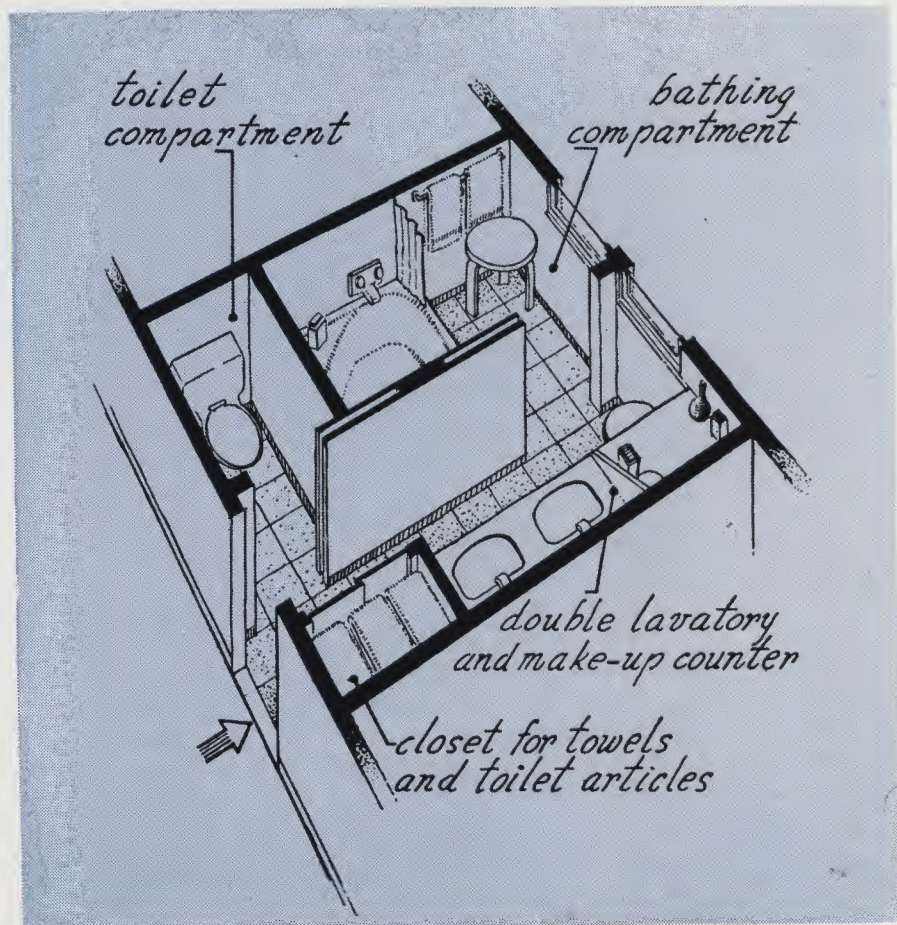
for installing them will be amortized by the repairs they will save you.

If economy has to be practiced, be sure that it does not affect the selection of your pipes. Here the very best is the only possible quality to select. Local water conditions govern the selection of the kind of pipe that will last longest where you are going to build. A plumber is a very expensive guest. A water conditioner where water needs treatment, will help to preserve your pipes, to say nothing of your skin and your disposition.

Bathroom planning is mechanically simple, since fixtures are generally standard sizes. Look out for windows over bath tubs, drafty for the bather and hard to open and close. Provide more medicine cabinet space than you think you'll ever need and you'll be the envy of your friends. Additional shallow shelves over the tub are good for soap, bath cosmetics, brushes and such. A woman will be glad of a drying rack for stockings and undies.

Many men like showers. The tub-shower combination is always useful. If possible fit in both a separate shower

*A partitioned bathroom such as this permits more than one person to use the area at the same time. Two wash-basins in any bathroom will be a particular help during those early morning rush-hours when the children have to get ready for school, and your husband has to leave for work.*

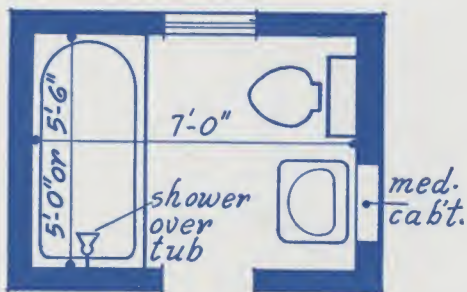




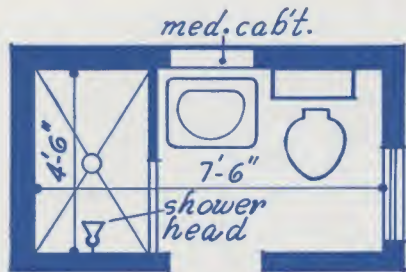
stall and a tub. In the country or suburban house, a downstairs shower stall is grand, gardeners, golfers and small fry will use it avidly and wear and tear on the house will be reduced all along the line. If you must pump your own water, pick a shower head which throws a good but concentrated spray as this kind uses water remarkably sparingly, but supplies a fine bath.

You can go as far as you like, or can afford, in making your bathroom a complete and up-to-date contributor to health, beauty and a sense of well being. There are numerous worthwhile accessories. Bathroom scales will help keep track of your avoirdupois and the children's growth. An electric radiant heater will be welcome in brisk fall days before general heating is on. A dental lavatory will save congestion and fuss. You can build in or provide space for a sun lamp too.

Don't forget you will need water outside the house as well as in, so locate "hose-bibs" (at least two) for your garden hose. And a faucet in the garage, and a floor drain there too for car washing in winter.



Where a tub is to be used, this bathroom is the absolute minimum. Note that none of the fixtures have been located under the window.



If a shower is to be used, the minimum width may be four feet six inches. Any bathroom smaller than this will be inadequate.

## Check List

Mark ? for further consideration  
Mark ✓ if O. K. for plans

### DESIGNATE ON PLAN

#### TO BE USED BY

- A. \_\_\_\_\_
- B. \_\_\_\_\_
- C. \_\_\_\_\_
- D. \_\_\_\_\_
- E. \_\_\_\_\_
- F. \_\_\_\_\_

#### ENTRANCE FROM:

- Bedroom \_\_\_\_\_
- Dressing room \_\_\_\_\_
- Hall \_\_\_\_\_
- Two bedrooms \_\_\_\_\_

#### BUILT IN:

- Clothes chute \_\_\_\_\_
- Clothes hamper \_\_\_\_\_
- Drying rack \_\_\_\_\_
- Linen closet \_\_\_\_\_
- Medicine cabinet \_\_\_\_\_
- Towel closet \_\_\_\_\_

#### FIXTURES:

- Bathroom scales \_\_\_\_\_
- Bath tub \_\_\_\_\_
- Cabinet \_\_\_\_\_
- Dental lavatory \_\_\_\_\_
- Lavatory: Corner \_\_\_\_\_
- Pedestal \_\_\_\_\_
- Wall \_\_\_\_\_
- Mirrors \_\_\_\_\_
- Separate shower \_\_\_\_\_
- Shower over tub \_\_\_\_\_
- Water closet in bathroom \_\_\_\_\_
- In separate compartment \_\_\_\_\_

#### LIGHTING:

- Ceiling \_\_\_\_\_
- Medicine cabinet \_\_\_\_\_
- Strip lighting \_\_\_\_\_
- Shower stall light \_\_\_\_\_
- Wall brackets \_\_\_\_\_

#### ELECTRICAL OUTLETS

- Glow heater \_\_\_\_\_
- Hair dryer \_\_\_\_\_
- Razor \_\_\_\_\_
- Sun lamp \_\_\_\_\_
- Ventilator \_\_\_\_\_
- Vibrator \_\_\_\_\_

#### WINDOWS:

- Casement \_\_\_\_\_
- Double hung \_\_\_\_\_
- Glass block \_\_\_\_\_
- Sliding \_\_\_\_\_



## Heating and Air-conditioning...

Your heating system should give you the heat you want, efficiently, dependably, economically, and as automatically as possible. It ought to be up to the worst winter weather. Aid and abet it by insulating your house well, and by getting as much supplemental warmth as you can from the sun through double-glazed windows.

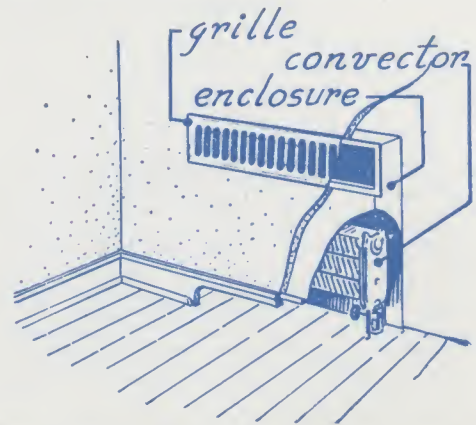
The three best-known ways of heating your house are by hot water, steam or warm air. No one is best for every home, but one may be the best for your locality and your type of house. Each one of the three systems mentioned can be either a gravity or forced circulation system. The latter steps up the efficiency of heating systems. Circulation is forced, where hot water is the heating medium, by a circulating water pump; for warm air it is a fan arrange-

ment, and with steam, vacuum valves do the trick. One of the main reasons why forced circulation is desirable is because it gives results so quickly when automatic controls switch on the heat. Besides this the units in your room, like radiators, convectors and ducts, can be smaller with a forced circulation system. Result, more clear wall space for furniture and a better looking room all around. The drawing below show various ways of heating your rooms.

Heating systems have been improved beyond belief in recent years and one of the greatest steps forward is in the manufacture of heating controls. The most ingenious of these are automatic, will supply you with the temperature you need for as long as you like, will switch on or off at the hour and temperature you select. What this means on



*Radiators are one of the commonest means of transferring heat from the boiler to the air of the room. Water or steam flows through the radiator and heat is given off by convection and radiation in the room. It is always well therefore to leave enough space around the radiator to permit air to circulate freely. A heat reflecting surface behind the radiator adds to its efficiency.*



*Convectors, usually thinner than radiators, may be installed in the wall, leaving only an opening at the top and bottom for the circulation of air.*

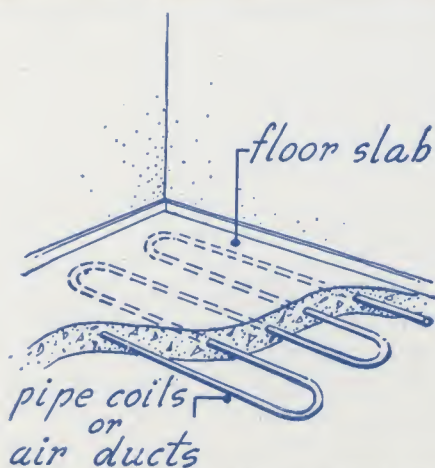


*The grill opening shown above might be the room supply or exhaust for a warm-air system or an air-conditioning system. Grills can also be located in the floor.*

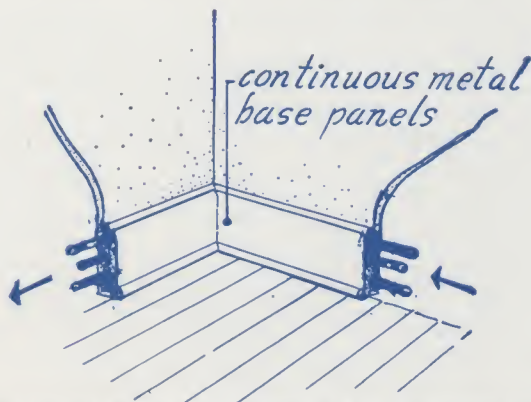


a snowy morning, only an old-time commuter can realize.

Hand in hand with heating goes its obverse, air conditioning. But with a simple forced air heating system, you may be able to achieve partial cooling, for this equipment is capable of circulating cooler basement or night air through your rooms. Individual room air conditioners serve special purposes, such as making one or two rooms comfortable. An attic fan properly installed is a good cooler too. Complete year round air conditioning does more,—technically it takes moisture out of the air, as well as cooling it in summer, puts moisture in and warms it in winter, filters the air the year round. Whatever system you use to achieve heating and cooling, it will work the better for a sound insulation job throughout your house.



Panel heating uses pipe coils or airducts running through the floor in order to provide radiant heat in the rooms. Any of the three heating mediums, air, steam or water may be used.



This new radiant heating unit appears to be a continuous base-board, and isn't much larger, but its long coils act as a radiator. Steam or hot water is used.

Study the literature of the manufacturers in this catalog to get an insight into modern equipment and how it works. Find out about the availability of fuel and service in your neighborhood. Then go ahead with the best quality units which you can afford, and insure their efficiency by providing insulation, weather stripping and double window glazing.

Heating and air conditioning are highly technical subjects and the layout of the system should be left in the hands of a reliable expert who is familiar with all the engineering data, one who has had experience in the field and can properly design the kind of system best suited to your particular plan and type of house. Tell him what you want, he'll do the rest.

## Check List

THE HEATING PLANT *will be located in the basement* ☐

*on the ground floor* ☐

IT WILL BE *hot water* ☐ *steam* ☐

*vapor* ☐ *warm air* ☐

*gravity* ☐ *forced circulation* ☐

FUEL: *coal* ☐ *anthracite* ☐ *bituminous* ☐

*gas* ☐ *oil* ☐ *electricity* ☐

IF SOLID FUEL

*provide automatic firing equipment* ☐

PROVISION FOR

*automatic control equipment* ☐

ELECTRICAL OUTLETS *for all equipment* ☐

COMPLETE AIR CONDITIONING *is desired* ☐

*it will operate on gas* ☐

*electricity* ☐ *oil* ☐

*air filtering* ☐ *cooling* ☐

*humidifier* ☐ *dehumidifier* ☐

FUEL STORAGE: *coal* ☐ *gas* ☐ *oil* ☐ *wood* ☐

AN ATTIC FAN *will be installed* ☐

UNIT COOLERS *for* ----- *rooms in summer*

SPECIAL NOTES -----

-----



# Electricity and Lighting...

The number and placement of electrical outlets is of the greatest importance. You will want a number of lamps and you will not want to live in a tangle of long electrical cords. Better to have too many convenience outlets than too few, you may want to change your furniture arrangements someday. If you are in doubt as to how you will arrange your furniture, put enough outlets on *all* walls so you can make shifts without sliding out of range of outlets, sources of light.

Lighting itself has become an exact science in recent years, the emphasis not on increasing light intensity willy-nilly, but on achieving just the right amount and kind for each and every task or purpose. The elimination of trying glare has been studied as intensively as the amount of light sufficient to make the finest work no strain on your eyes.

Causes of eye strain (which in turn leads to fatigue and all sorts of physical disorders) seem to be: insufficient light, glare, unduly sharp brightness contrasts. A spottily lighted room may be exciting to look at, but definitely dangerous for the eyes. Bright, individual lights should be no more than ten times as bright as the general, over-all room light. In other words, don't settle down under one reading lamp, at night, with the rest of the room in darkness. Supplement your local lighting with general illumination.

Used in combination or separately, there are three kinds of lighting to be considered:

**Direct.** This is concentrated illumination for reading, writing or delicate, exacting work, directed where you want it, usually from your shaded lamps. See that it supplies ample intensity for the job in hand without glare.

**Indirect,** as the name implies, involves light thrown onto a large area, generally the ceiling, and reflected back from

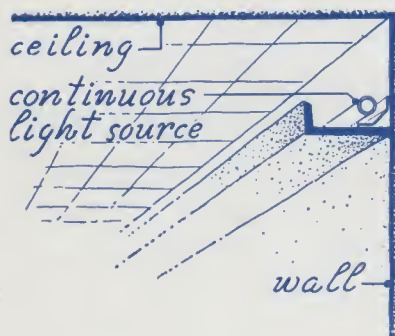
it, to spread diffused light throughout. It is provided by special fixtures, coves or reflectors.

**Semi-Indirect.** Light is directed both upward and down, so that some is direct, some reflected.

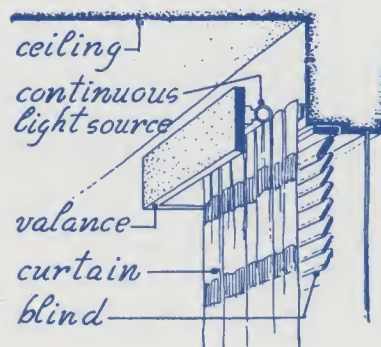
In addition to any scientific knowledge which you can bring to bear in planning the lighting of your home, the main tool which you have is good common sense. It will tell you to see that stairs are well lighted, that hall lights are controlled by switches both upstairs and down, that you get soft general lighting in your dining room, that good direct lights are close to the chair where you will read or sew, that local lights illumine each kitchen task, and so on. And don't forget lights outside, either.

And while you are thinking of where each lighting fixture or outlet should be in relation to each activity and piece of furniture in each room, be sure the wiring is adequate, yes generous, for both lighting and appliances and for power. Now is the time to provide at least cost the wiring outlets for all the labor-saving and convenience items that you will need and want,—washer, ironer, radios, television, refrigerator, freezing unit, range, fans, motors, room heaters, and power for your oil burner or stoker and all the rest. This means plenty of outlets, properly arranged circuits and wire sizes large enough to carry the present and future loads.

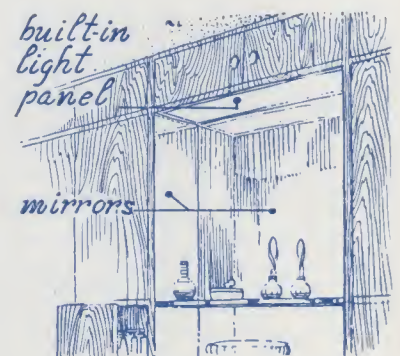
Switches should be located so you can reach them naturally as you enter or leave a room or space, lighting your way before you. A pilot light at the cellar switch will show you whether the light is on or off down there. And have one for the attic too. Be sure your circuit-breaker or fuse-box is in a handy location for you will want to be able to get at it in the dark if something goes wrong.



1. Continuous uniform lighting for any room may be secured by using fluorescent, incandescent or cold cathode tubular lamps hidden in a cove or molding.



2. Tubular lights behind a valance may be used to accent windows or objects. It is also an interesting way of providing general illumination.



3. Built-in light panels around mirrors are always helpful. Such a unit as shown above might be installed in a bed room between two closets—over a vanity.



# Product Selector...

The list on this and the following pages will enable you to make a permanent record of your selections of all the various items you will want in your house, designated by the specific producer's name and brand. In the column headed "kind or material" write in the type, or material of which any item is made. The trade name goes next, and the manufacturer's or firm's name in the last column, using the information you have found in your thorough

study of the manufacturers catalogs section of this volume. Make plenty of notes as you go through.

In the first section of this material and equipment list the rooms have been taken up individually room by room. Several blank lines have been left under each major item; i.e., walls, ceilings, floors, etc. The "reminder" (below) is arranged alphabetically, suggests types, kinds, materials and finishes which may be written in these blanks. You fill in the brand name and manufacturer's name. The example below shows how the first line of the check list might have been written.

LIVING ROOM	KIND OR MATERIAL	BRAND	MANUFACTURER OR FIRM
WALLS AND CEILINGS	Metal lath	Plast-key	Lathmaster, Inc.
	Paint	Stay-flo	Cambria Paint Co.
FLOOR	Linoleum	Stichlook	Resifloor and Huc, Inc.
	Carpet	Petalpaddy	Warp & Woof

REMINDER (Go over this list when considering each room as it will suggest materials, types, etc.)

WALLS:	Cork	Fixed	HARDWARE:	Unit heaters
Fabric	Linoleum	Glass block	Cabinet	Unit cooler
Glass	Paint, Varnish,	Rolling screens	Door	Vanity
Linoleum	etc.	Screens	Window	Ventilator
Metal	Rubber	Sliding	Other	Window seats
Paint	Rug anchors and	Storm sash	BUILT-IN UNITS	DOORS:
Plaster	pads	Venetian blinds	Bookcases	Dutch
Plaster base	Rugs	Weather stripping	Cabinets	Flush
Plywood	Stone	Window shades	Closet equipment	French
Tile	Tile	LIGHTING FIXTURES:	Cupboards	Panelled
Wallboard	Wood	Ceiling	Damper	COMMUNICATION:
Wallpaper	WINDOWS:	Cove or recessed	Dresser	Alarm systems
Wood paneling	Casement	Fluorescent	Fireplace mantel	Call bells
FLOOR:	Curtain hardware	Strip	Fireplace circulating	Chimes
Asphalt tile	Draperly hardware	Spot light	unit	Intercommunicating
Carpet	Double glazed	Ultra-violet	Heat controls	Radio
Concrete	Double hung	Wall bracket	Radiator covers	Telephone
				Television

## LIVING ROOM

	KIND OR MATERIAL	BRAND	MANUFACTURER OR FIRM
WALLS AND CEILINGS			
FLOOR			
DOORS			
WINDOWS			
HARDWARE			
LIGHTING FIXTURES			
BUILT-IN UNITS			
COMMUNICATION			
OTHER			

# Home Owners' Product Selector

## DINING ROOM

	KIND OR MATERIAL	BRAND	MANUFACTURER OR FIRM
WALLS AND CEILINGS			
FLOOR			
DOORS			
WINDOWS			
HARDWARE			
LIGHTING FIXTURES			
BUILT-IN UNITS			
COMMUNICATION			
OTHER			

## KITCHEN

WALLS AND CEILINGS			
FLOOR			
DOORS			
WINDOWS			
HARDWARE			
LIGHTING FIXTURES			
BUILT-IN UNITS—ACCESSORIES AND EQUIPMENT			
Cabinets			
Counter Tops			
Dishwasher			
Drainboards			
Food freezer			
Garbage disposer			
Incinerator			
Range			
Refrigerator			
Sinks			
Ventilator			
Other Appliances			
COMMUNICATION			

## LAUNDRY

WALLS AND CEILINGS			
--------------------	--	--	--



# Home Owners' Product Selector

	KIND OR MATERIAL	BRAND	MANUFACTURER OR FIRM
FLOOR			
DOORS			
WINDOWS			
HARDWARE			
LIGHTING FIXTURES			
<b>BUILT-IN UNITS-ACCESSORIES AND EQUIPMENT</b>			
Cabinets			
Dryer			
Hot plate			
Ironer			
Mangle			
Sinks			
Tubs			
Ventilator			
Washing machine			
Other Appliances			

**BEDROOMS** (Name) \_\_\_\_\_  
*(Repeat on separate sheet for each bedroom if necessary)*

WALLS AND CEILINGS			
FLOOR			
DOORS			
WINDOWS			
HARDWARE			
LIGHTING FIXTURES			
BUILT-IN UNITS			
COMMUNICATION			
OTHER			

**BATHROOM** *(Repeat on separate sheet for each bath or lavatory if necessary)*

WALLS AND CEILINGS			
FLOOR			
DOORS			
WINDOWS			
HARDWARE			
LIGHTING FIXTURES			

# Home Owners' Product Selector

BUILT-IN UNITS—ACCESSORIES AND EQUIPMENT	KIND OR MATERIAL	BRAND	MANUFACTURER OR FIRM
Brush and glass holder			
Dental lavatory			
Hair dryer			
Hamper			
Lavatories			
Medicine cabinets			
Mirrors			
Shower controls			
Shower cabinet			
Soap dish			
Toilet paper fixture			
Towel racks			
Tub hanger			
Tub			
Unit heater			
Ventilator			
Water closet			

*Note: Make similar lists for each room including game room, basement, study, sun room, garage, dark room, hobby room, utility room, etc.*

## MECHANICAL EQUIPMENT

### HEATING AND AIR CONDITIONING

Air conditioning			
Air filters			
Attic fan			
Automatic controls			
Boiler			
Circulating system			
Convectors			
Cooling equipment			
Dehumidifier			
Furnace			
Gas burner			
Hot water heater			
Humidifier			
Oil burner			
Radiators			
Radiator enclosures			
Stoker			
Valves			
Ventilating fans			
Warm air grills and registers			

### ELECTRICITY AND LIGHTING

Alarm systems			
Circuit breakers			
Door chimes			
Floodlighting			
Fuse boxes			
Lightning rods			
Radio system			
Wiring system			



# Home Owners' Product Selector

PLUMBING AND SANITATION	KIND OR MATERIAL	BRAND	MANUFACTURER OR FIRM
Cold water pipe			
Copper tubing			
Floor drains			
Grease traps			
Hot water pipe			
Hot water tank			
Lawn sprinkling system			
Mixing valves			
Pumps			
Septic system			
Soil pipe			
Sump pump			
Traps			
Valves			
Vent pipe			
Water conditioners			
Water supply system			

## STRUCTURAL AND OTHER ITEMS

ACOUSTIC TREATMENT			
AWNINGS			
BRICK			
BRICK VENEER			
BUILDING PAPER			
CEMENT			
CLOSET FIXTURES			
CONCRETE BLOCK			
CURTAIN AND DRAPERY HARDWARE			
DOORS			
Cellar bulkhead			
Exterior			
DUMBWAITER			
FENCE			
FINANCING			
FIREPLACE EQUIPMENT			
Circulating unit			
Dampers			
Log hoist			
Mantel			
FLASHING			
GARAGE DOORS			
Automatic control			
Hardware			
GARBAGE RECEIVER			
GLASS			
Double glazing			
Glass blocks			
Mirrors			
Plate			
Structural			
Window			

# Home Owners' Product Selector

	KIND OR MATERIAL	BRAND	MANUFACTURER OR FIRM
GREENHOUSE			
GUTTERS AND LEADERS			
HARDWARE			
INCINERATOR			
INSULATION			
Ceiling			
Floor			
Pipe and duct			
Roof			
Wall			
INSURANCE			
Casualty			
Fire			
Life			
LANDSCAPING			
Nursery			
Tree surgery			
LIFT			
LUMBER			
MILL AND CABINET WORK			
ORNAMENTAL IRON WORK			
PAINT PRODUCTS			
Exterior			
Interior			
Special uses			
PLASTER			
PLASTER BASE			
PLYWOOD			
ROOFING			
SCREENS			
SOUND INSULATION			
STAIRS			
Attic			
STONE			
STRUCTURAL STEEL			
STUCCO			
VENETIAN BLINDS			
WALLBOARD			
WATERPROOFING			
WEATHERSTRIPPING			
WINDOWS			
WINDOW SHADES			
WORKSHOP EQUIPMENT			

See "Room Check lists" for additional products.  
Make similar lists for furniture, portable appliances and other items.



"We're going to have  
Aluminum Windows!"



ALWINTITE

ALUMINUM WINDOWS

To you

## WHO ARE PLANNING A NEW HOME

You're going to live *with* and *in* that new home of yours for a long time.

As you dream about it now, and as you begin to put your plans on paper, consider carefully all the *good* things you'll want in that home—the things that will add to your continued enjoyment and comfort—the things that will reflect you and your family's personality—the things of which you never tire.

Give particular attention, as you plan, to your windows. They can do so much in adding beauty to exteriors, charm to interiors.

Remember, too, that while many of the features of your home—such as wall paper, floor coverings, drapes and furniture—are easily changed, windows are a part of the basic structure. That's why it is so important that you give careful thought to their selection now before you start to build.



**THE ALUMINUM WINDOW CORPORATION**

A subsidiary of General Bronze Corporation

34-19 Tenth Street

Long Island City 1, N. Y.

©1945, T.A.W.C.—PTD. IN U.S.A.





*For that new home of yours*  
**ALUMINUM WINDOWS**

Of course you're going to have aluminum windows in that new home of yours. It just won't be up-to-date without them. And what's more, like everyone else who has ever experienced their many luxuries, you're simply going to "fall in love" with these truly modern windows.

You'll particularly like the way they do things for your home—the way their smart appearance gives new charm to interiors as well as exteriors—the way their neutral color helps you get the most from your decorative schemes—the way their narrow sight lines add extra sunshine to your rooms.

You'll like, too, the fact that these modern aluminum windows save you money year after year.

They cannot rust or rot out and you never have to paint them. Just wiping them off as you wash the windows keeps them clean and bright. And what's more, you never have trouble with warping, swelling or sticking—they are always easy to operate. Just a touch of the finger and with an easy, effortless movement you slide them up and down or swing them in and out—never any tugging or pushing. Their patented, built-in stainless steel weather stripping assures a window that's really weathertight—one that keeps out drafts and rain—one that helps you cut fuel costs.

To make sure that you enjoy all the luxuries of these fine aluminum windows in your new home, ask your architect or builder to include ALWINTITE Aluminum Windows.





Whether you prefer double hung or casement style windows, you'll find ALWINTITE Aluminum Windows ideal in every respect.

In the double hung style you have a choice of four types of glass arrangement and nine different stock sizes. In the casements there are eight stock sizes to fit the most popular size window openings. You'll find them all illustrated and described with complete dimensions on pages 12 and 13 of this booklet.







**Once a luxury for high-priced homes  
... now every home owner can enjoy  
the advantages of aluminum windows**

Aluminum windows have long been recognized by architects, decorators and home owners alike as ideal for residential use. Their smart appearance, narrow sight lines, permanent ease of operation, continued weathertightness, freedom from costly upkeep and repairs appeal to all.

In the past, however, the cost of aluminum windows has limited their use only to high-priced homes, and to large buildings.

Today the story is different. As you plan that new home—whether it be a tiny cottage or an impos-

ing mansion—you, too, can count on enjoying the many advantages of these luxury windows.

Thanks to the increased availability of aluminum, plus new production techniques developed as a result of wartime manufacturing, we have succeeded in producing a fine quality aluminum window, easily within the budget of all. Its name is ALWINTITE and you'll have it for the price you'd expect to pay for any good window.

Yes, you *will* enjoy the luxury of aluminum windows, but you won't pay luxury prices.



or your new home

**ALUMINUM WINDOWS**





*For any style of architecture...any size home*

## **ALWINTITE ALUMINUM WINDOWS**



Whether the "house of your dreams" be a Cape Cod Cottage, Southern Colonial, English Tudor, California Ranch House, or a Contemporary Modern, ALWINTITE Aluminum Windows can add immeasurably to its beauty and charm. The pleasing neutral color and narrow lines of aluminum windows harmonize with practically any style architecture, with all materials of construction—frame, brick, stone or stucco.

Interior decorators are particularly enthusiastic over the way these smart-looking aluminum windows blend with interior color schemes—the way their narrow sight lines add to the trim appearance of every room. Remember that regardless of type or style of your house ALWINTITE Aluminum Windows will always be in good taste.

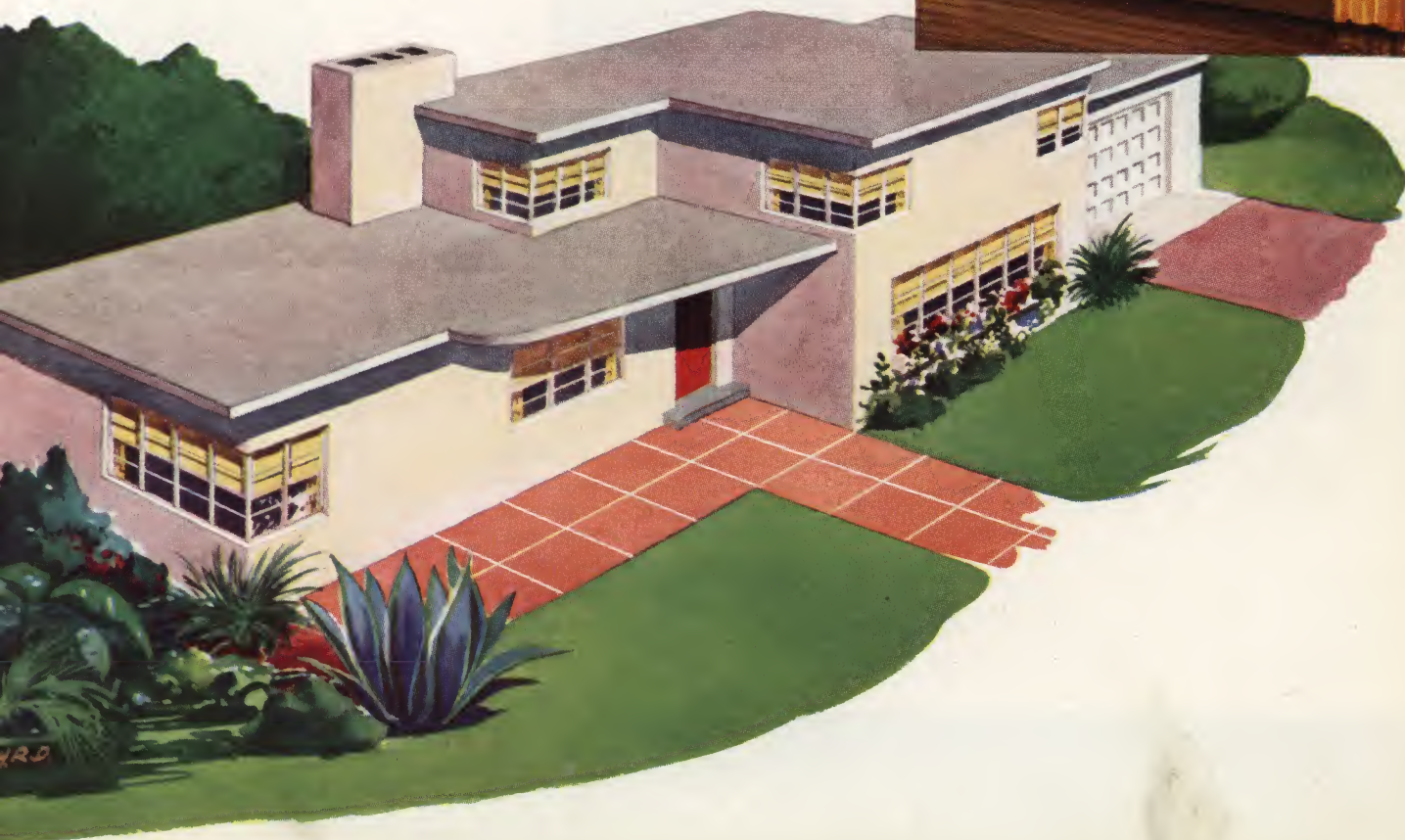


# "UP-TO-DATE" *for many years to come!*

The building or purchasing of a new home is a big event for most families. If you want *your* home to be considered up-to-date and "modern" for many years to come, make sure it includes "tomorrow's windows" today.

As you plan now to build or buy a new house, give careful consideration to the windows, for nothing dates a house quite so much as clumsy, old-fashioned windows. Avoid dating your house. Do as the builders of modern hospitals, schools and other public buildings are doing. Choose aluminum windows.

Modern-looking ALWINTITE Aluminum Windows will not only last the lifetime of your house but their continued smart appearance, ease of operation and permanent weathertightness will increase the resale value and marketability of that house if you should ever decide to sell.

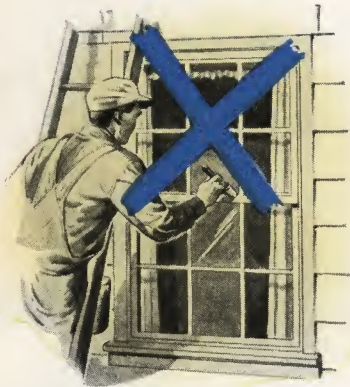






**SMART APPEARANCE**  
*inside and out*

Aluminum windows bring beauty to any home, to any room. They are trim, smart, and neutral in color. You'll like the way they harmonize readily with both interior and exterior color schemes and materials. You'll like the way they give that "finished" touch to your home.



**NEVER ANY PAINTING**  
*or upkeep costs*

Just think of the money you'll save on painting as well as the bothersome inconvenience you'll avoid with ALWINTITE Aluminum Windows. They won't ever rot or rust—never need to be painted. Just wipe them with a damp cloth occasionally and they keep that clean, trim look always.



**ALWAYS EASY TO OPERATE**

Here's a feature of particular appeal to women—aluminum windows won't warp, swell or stick. No tugging, or pulling, ever. You'll always open or close them with an easy, effortless motion—even after many years of service.



**EASILY SCREENED**  
**and STORMSASHED**

No more climbing ladders with clumsy, heavy, back-breaking storm windows and screens. ALWINTITE Aluminum Windows are designed and constructed to accommodate special tight-fitting, easy-to-handle aluminum storm sash and screens that can be installed from the inside.

*These are the luck*  
*when you*

**ALWINTITE**

**ALUMN**

**for your new home**

**ALWINT**



ries you'll enjoy  
home has

# UM WINDOWS



**MORE LIGHT**  
*narrow sight lines*

The narrow muntins (cross bars that divide large glass areas into smaller units) and narrow side frames of ALWINTITE Aluminum Windows give you more glass area throughout your entire house. They let in more light and sunshine to brighten your rooms—add cheer to your home.



**SNUG WEATHER PROTECTION**  
*saves fuel*

The patented, built-in stainless steel weather stripping on ALWINTITE Aluminum Windows keeps out cold drafts and rain. Their continuous weathertight service for the life of your house will save you many dollars in fuel bills.



## INCREASED RESALE VALUE

Another reason you'll want ALWINTITE Aluminum Windows is that they will increase the marketability and resale value of your home if you should ever decide to sell. Remember, in the years to come, any home without aluminum windows will never be truly up-to-date.



## NO WEIGHTS, PULLEYS OR CORDS

With ALWINTITE Aluminum Windows you'll never have to worry about replacing bothersome sash cords. There aren't any weights, pulleys or cords to replace. Patented side balances assure trouble-free operation. Your windows will always work easily, silently and efficiently.

# ALUMINUM WINDOWS





## DISTINCTIVE BEAUTY

Whether your rooms are styled in the traditional or modern manner, you'll find that ALWINTITE Aluminum Windows add immeasurably to their loveliness and charm.

You'll find, too, that the trim, graceful lines and pleasing neutral color of these smart-looking windows blend with and enhance the beauty of any decorative theme. They are easy to drape and can be used with or without glass curtains or venetian blinds with full effectiveness.

Because of their narrow, streamlined mullions, you can use ALWINTITE double hung





## FOR EVERY ROOM!

windows in many interesting combinations and arrangements.

For instance, the use of three or four of the popular, new 2 over 2 horizontal style, placed side by side, give an attractive window wall effect.

You can also use this style window for interesting corner arrangements—to provide a cheery breakfast nook in a kitchen, or to add greater interest to a living or dining room.

Plan now to make your new home more livable, more enjoyable with smart-looking ALWINTITE Aluminum Windows.







## DOUBLE HUNG WINDOWS

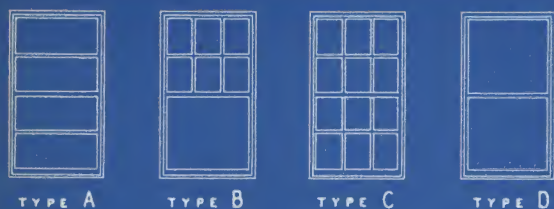
If you are planning the type of house that calls for double hung windows, you'll find these new ALWINTITE Aluminum Windows ideal in every way. They never stick. They slide up or down with ease. They are permanently weathertight. And not only do they give continued trouble-free operation, but their smart, trim appearance adds a final touch of distinctive beauty to any home.

Both the interior and exterior appearance of Colonial houses and Cape Cod cottages are improved by the narrow muntins on ALWINTITE multiple pane windows, yet none of the traditional simplicity is lost through this "modern" note of efficiency.

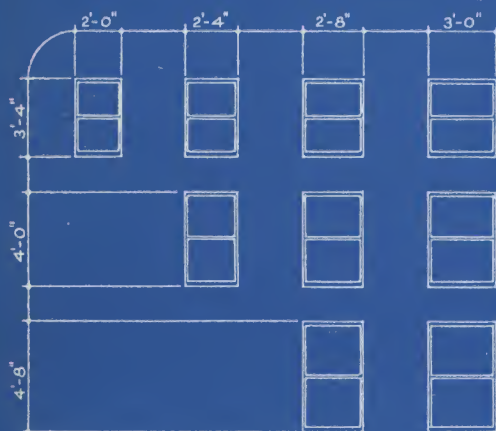
ALWINTITE double hung aluminum windows come in nine stock sizes to fit the most popular, standard-size window openings. They also offer you a choice of several styles of glass (muntin) arrangements.

These are fine quality aluminum windows in every respect. They embody the best design and construction features of high-priced windows. Their seamless, tubular construction, securely joined, assures extra strength and rigidity. Manufactured from extruded aluminum, these windows meet all the standards established by the Aluminum Window Manufacturers Association.

To make sure you enjoy all the luxuries of these fine aluminum windows in your new home, have your architect or builder include ALWINTITE Aluminum Windows.



OPTIONAL MUNTIN ARRANGEMENT



AVAILABLE STOCK SIZES  
( MASONRY OPENING )







## CASEMENT WINDOWS

The new ALWINTITE casement windows harmonize beautifully with Tudor, Georgian, Southern Colonial, and other types of architecture. They are thoroughly in keeping with dignified style and help to make a moderately priced home really distinctive.

ALWINTITE casements come in eight different stock sizes and may be had with several glass (muntin) arrangements. A large ALWINTITE panorama or "picture" window with movable side vents is also available.

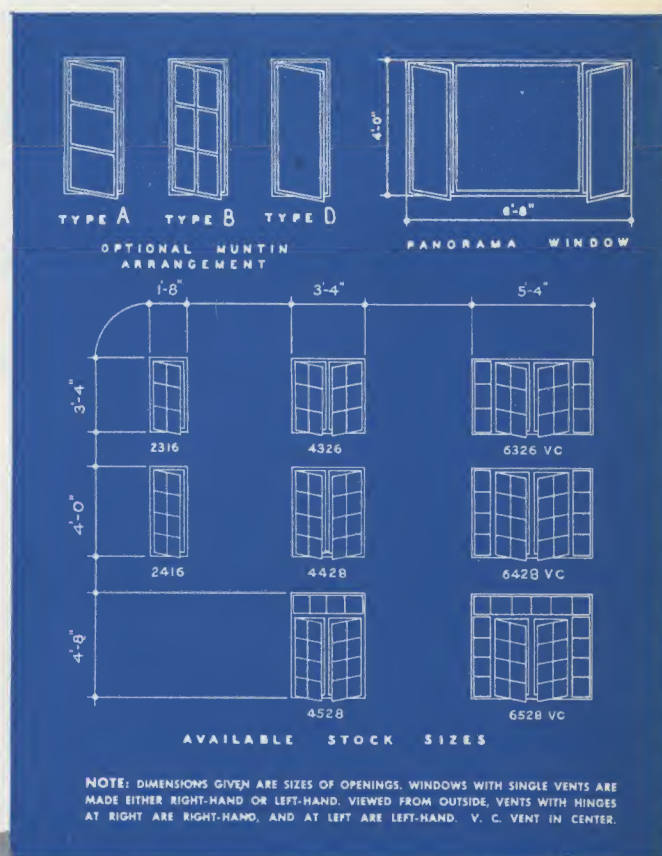
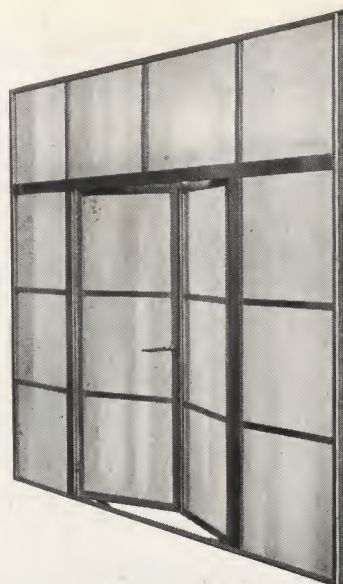
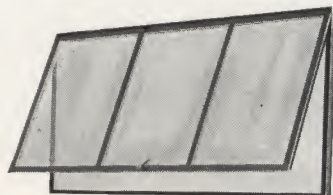
Simple, graceful hardware, designed for maximum convenience and ease of operation, is an integral part of these beautiful windows.

You'll find ALWINTITE casements include *all* the features that a really fine window should have. Patented, built-in stainless steel weatherstrip keeps them weathertight forever. Frames and sash are securely joined, assuring complete rigidity—so important in any casement window. And made of aluminum they never require painting or costly upkeep.

As you plan that new home now, be sure your architect or builder uses these modern aluminum windows. Remember the name — ALWINTITE Aluminum Windows.

### ALWINTITE BASEMENT SASH

In-swinging, top-hung, aluminum basement sash is also available. Size 2'8" x 1'8".



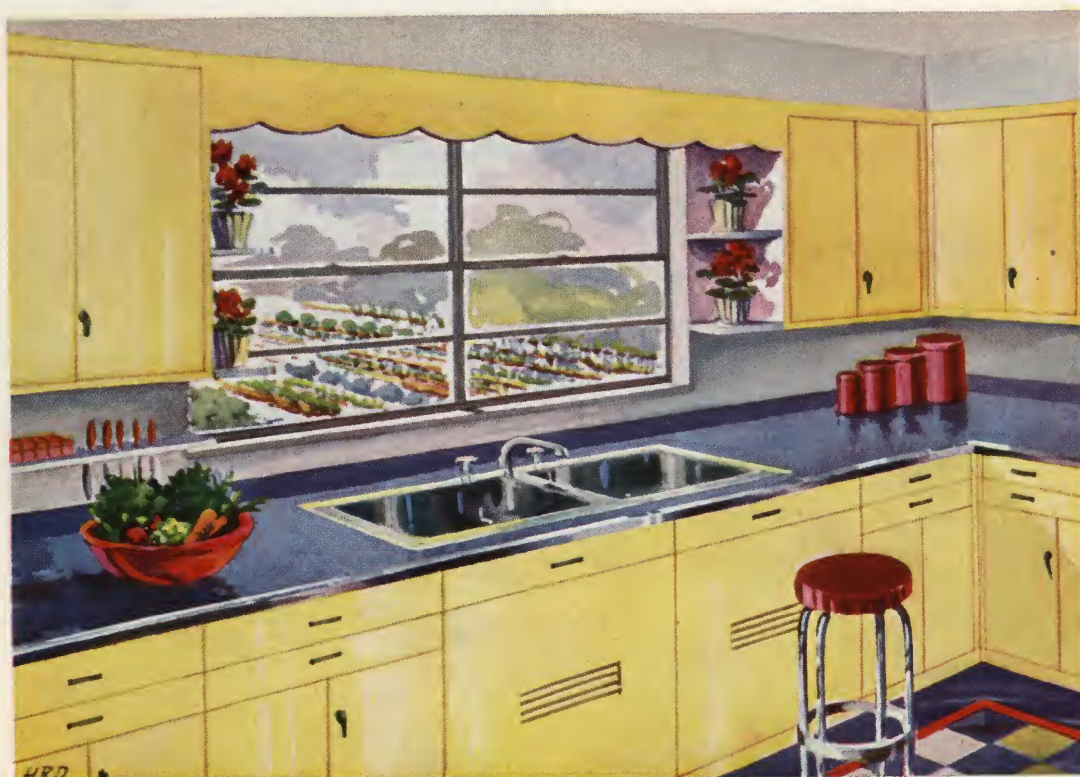




You'll particularly appreciate the many features of ALWINTITE Aluminum Windows in your bedrooms—their smartness—the ease with which they open or close—and the way they keep out cold drafts and rain. To assure good ventilation plan at least two windows for every bedroom.

*Any room is more beautiful... more livable*

**WITH ALWINTITE ALUMINUM WINDOWS**



Make yours a bright, cheery kitchen with as many windows as space will allow. Large windows—either ALWINTITE double hung or casements—will fill your room with light and sunshine, provide ample ventilation and help make your kitchen a pleasant place in which to work.



## ALWINTITE ALUMINUM WINDOWS

*embody 35 years' experience in fine window design!*

ALWINTITE Aluminum Windows are manufactured and distributed by The Aluminum Window Corporation, a subsidiary of General Bronze Corporation, one of the largest manufacturers of non-ferrous (aluminum and bronze) windows in the world.

For 35 years windows by General Bronze have been recognized by architects and builders for their excellent design and superior workmanship. They have been specified and used in many of the finest schools, hospitals, courthouses and other public buildings throughout the country.



With this rich background, The Aluminum Window Corporation is today in a position to assure you that ALWINTITE Aluminum Windows are truly fine residential windows. They embody many of the features formerly found only in high-priced, custom-built residential windows.

To make sure you enjoy *all* the luxuries of these fine windows, ask your architect or builder to include ALWINTITE Aluminum Windows.

## THE ALUMINUM WINDOW CORPORATION

*A subsidiary of General Bronze Corporation*

34-19 Tenth Street

Long Island City 1, N. Y.



for your new home



# ALUMINUM WINDOWS

**THE ALUMINUM WINDOW CORPORATION**

*A Subsidiary of General Bronze Corporation*

**34-19 TENTH STREET**

**LONG ISLAND CITY 1, N. Y.**

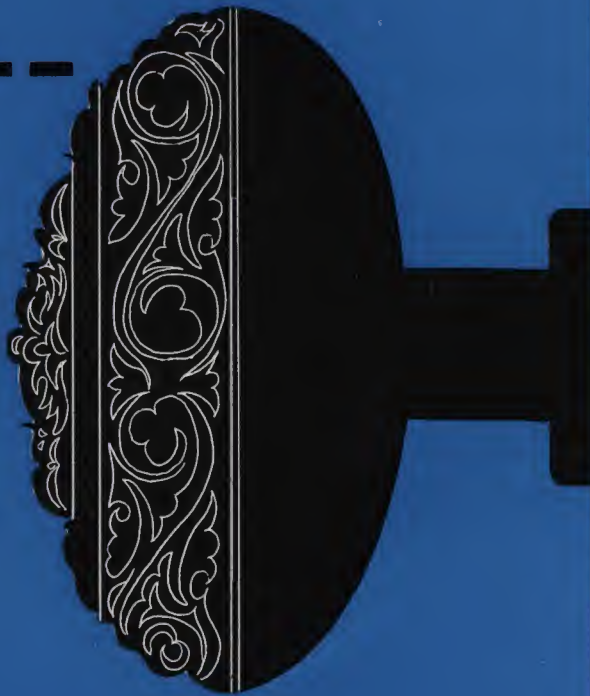


# OPEN

the

door-----

*to a new world  
of ease and  
convenience!*



## GAS



AMERICAN GAS ASSOCIATION

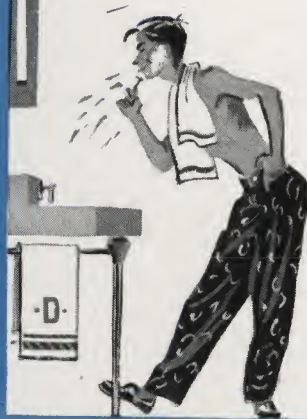
THE WONDER FLAME... THAT COOLS AS

WELL AS HEATS



Your "New Freedom  
Gas Home"—

**F**reedom from  
hot water failures...



With a new automatic GAS water-heater there's an abundance of hot water for every use . . . baths, laundry, dishes . . . all without you giving it a thought (or considering your pocketbook)!

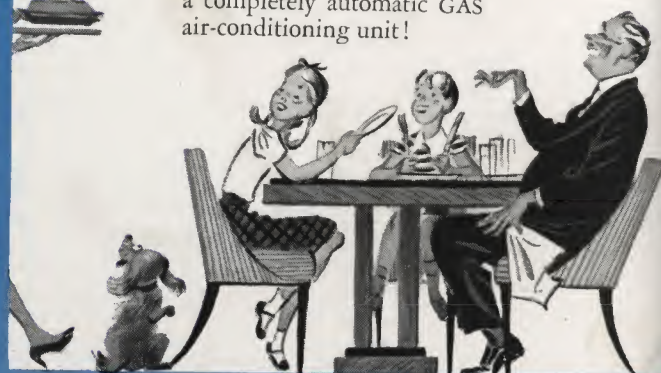
**F**reedom from  
kitchen worries...

Thanks to a new GAS range—with automatic controls—you cook better meals, with far less work, in far less time! A new silent GAS refrigerator keeps foods fresh longer—saves you hours of marketing!



**F**reedom from  
summer heat and winter cold...

All year round you bask in healthful, humidity-controlled air . . . kept at perfect temperature by a completely automatic GAS air-conditioning unit!



Multiply by 20,000,000!

**TODAY**, 2 out of every 3 American homes enjoy the convenience, cleanliness and comfort of Gas! The reasons are obvious. Gas is easily the *fastest* and most *flexible* cooking fuel . . . the most *worry-free* fuel for refrigeration . . . the most efficient heating agent for an ample supply of hot water and the floor-to-ceiling warmth Americans demand in winter. Gas service is *reliable* . . . even most hurricanes fail to interrupt its even flow. Yet with all its other benefits Gas is *economical*. No matter what size house you build . . . whatever the special needs of your family . . . Gas gives you the *greatest* value at the *least* cost. It's the modern fuel—no truly modern home can afford to be without.



**GAS**

THE WONDER FLAME



# Want a better kitchen... built just for you?

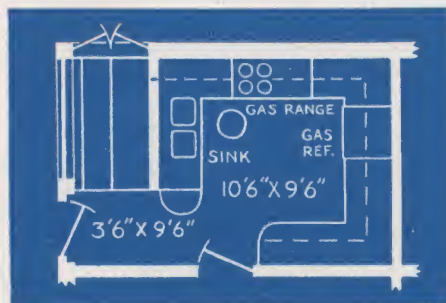
Want a modern workshop? Your "New Freedom Gas Kitchen"\* is streamlined to the 'nth degree . . . step-planned to the last inch! And it's built around these three great freedom-from-drudgery essentials—a new Gas range, Gas heated water and silent Gas refrigeration. Cabinets and appliances are *made* to go together . . . with no dust-catching crannies to mar their beautiful, unbroken work surfaces. What's more . . . it's *your* kitchen designed with your needs in mind—and garnished with all the little *private* work-savers you've been dreaming of for years!



HANDY BREAKFAST-BOOTH KITCHEN . . . AN ORIGINAL "NEW FREEDOM GAS KITCHEN" DESIGN.

## Want a cooler, cleaner kitchen?

Your "New Freedom Gas Kitchen" is unbelievably free from unwanted cooking heat and dirt . . . yes, even from unpleasant cooking odors! Furthermore—with its improved insulation your new Gas range helps keep heat *on* the cooking job—and *out* of the kitchen!

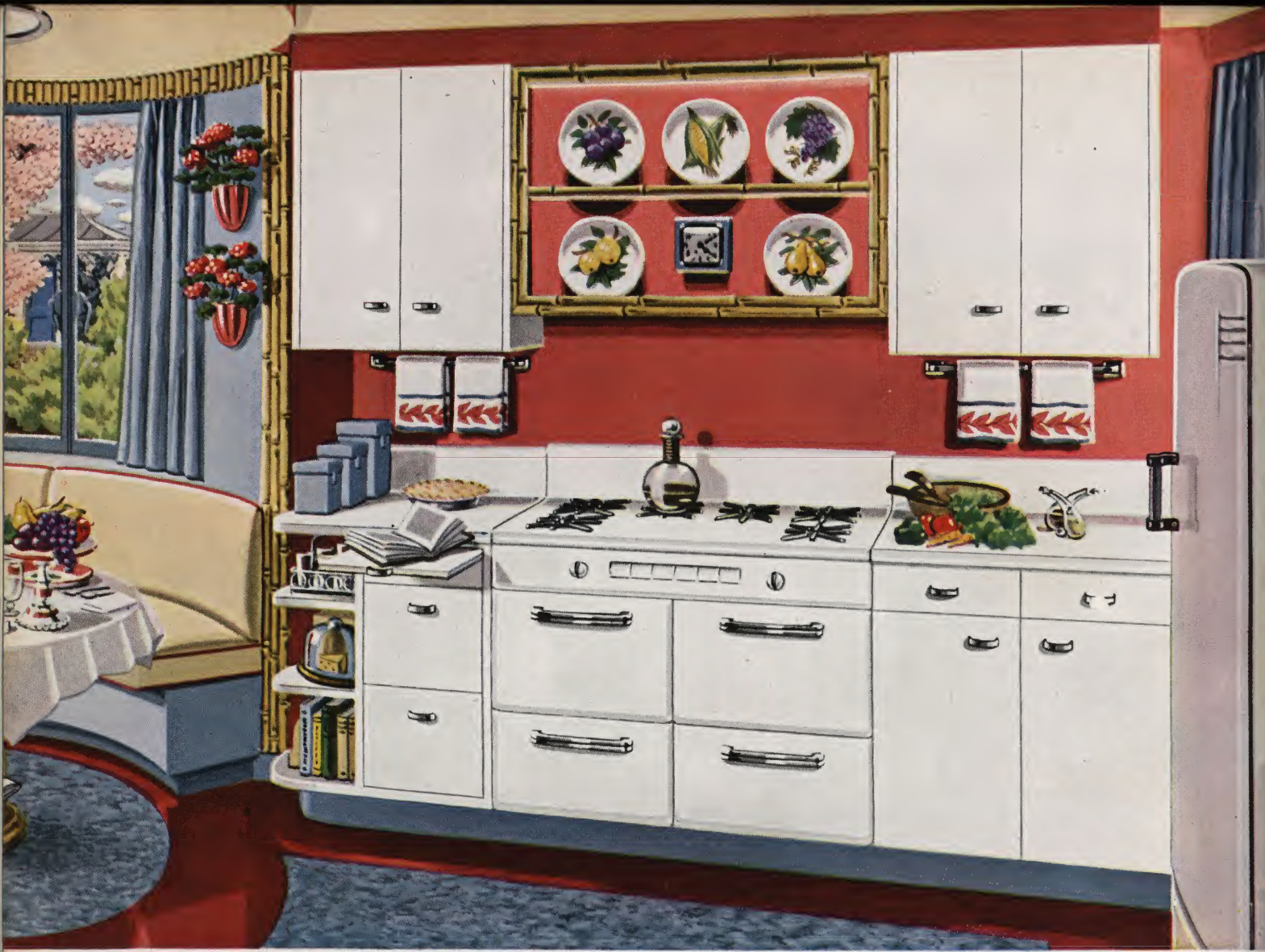


## Want to know how to get it?

To help you in planning your own efficient-in-every-way kitchen . . . the Gas industry has developed a whole series of "New Freedom Gas Kitchen" designs. Use them to "shop" for ideas. And then ask your local Gas Company to tell you—your architect or builder—how to include all of these "freedom features" in *your* new all-Gas kitchen.

**HAT COOLS AS WELL AS HEATS**





FAMILY-CIRCLE KITCHEN...AN ORIGINAL "NEW FREEDOM GAS KITCHEN" DESIGN.

Cooking is  
easier...faster...  
better in your  
"New Freedom Gas  
Kitchen"!

**Rival** the cooking magic of a famous chef!—with a new Gas range that uses the same fast, *clean* cooking fuel as America's most renowned restaurants and night clubs.

**Serve** juicy flame-broiled steaks! . . . from a *smokeless* broiler that pre-heats almost instantly and requires far less cleaning! Roller bearing tray slides out at the touch of a finger!

**Cook** a heavenly meal when you're not even in the house! It's no trick at all with the fool-proof *automatic controls* that are an integral part of your *ultra-modern* Gas range!

**Bake** cakes light as thistle-down! . . . in an *oven* that lights itself and maintains so consistently uniform a temperature that baking and roasting failures are a thing of the past!

**Enjoy** vitamin-rich vegetables, *high-boiled* quickly on "speed demon" top burners...savory stews, slow simmered on *low* flame. There's a heat for *every* purpose on your *flexible* new Gas range!

**Take** pride in the looks of your new Gas range!—as smartly stream-lined in the *outside design*—as its modern performance, *inside*!

**GAS** 

THE WONDER FLAME . . .





NURSERY KITCHEN . . . AN ORIGINAL "NEW FREEDOM GAS KITCHEN" DESIGN.

**Keep** more foods fresh longer . . . in a new Gas refrigerator that's streamlined to give you so much *more room* . . . you'll have to shop far less often!

**Put** your finger on any food you want . . . *instantly!* Your new Gas refrigerator is a marvel of *convenient* arrangement. It even has easy-to-clean sliding shelves!

**Save** costly repair bills! There are no moving parts to break down or wear out in the freezing system of a Gas refrigerator. And, it's economical in every *other* way, too!

**Work** in peace and quiet—every minute of the day! There's never a sound from your *silent* Gas refrigerator . . . no matter how many years you use it!

**Avoid** wasteful food spoilage! With its no-shut-down service . . . its *constant cold* . . . your new Gas refrigerator protects the healthful qualities of all foods longer!

**Entertain** royally with a new Gas refrigerator that provides plenty of *ice* . . . any one of dozens of frozen, desserts . . . and special space for storing a *raft* of quick-frozen foods!

*Food storage  
is easier...more  
efficient in your  
"New Freedom Gas  
Kitchen"!!\**



# Instant **Hot** Water... for every job in your "New Freedom Gas Home" \*

In the kitchen... A new automatic Gas water-heater makes all your clean-up chores easier! Just turn the tap—and any hour of any day—there's plenty of *really* hot water at your command! Yes! There's even a supply ample enough to run one of those wonderful new dishwashers. And all provided so economically and *automatically* you never have to give your Gas water-heater a thought or a care!



KITCHEN LAUNDRY COMBINATION . . . AN ORIGINAL "NEW FREEDOM GAS KITCHEN" DESIGN.

In the laundry... At last, it's practical to have one of those new machines that automatically washes, rinses and wrings the clothes. For an automatic Gas water-heater furnishes the *abundant* hot water and *quick replacement* of supply required for maximum efficiency!

In the bath, too! Every member of the family can shower by the hour . . . even on wash day! With your new automatic Gas water-heater there's so *much* hot water . . . and at such little cost . . . you'll never have a run-cold worry again!



THE WONDER FLAME . . .



# Automatic Heating

## for your "New Freedom Gas Home"\*

**NOW YOU CAN HAVE  
WONDERFUL WORK-FREE,  
DIRT-FREE WARMTH...  
ALL WINTER LONG!**



**1. Install** a new automatic Gas heating system and forget your *winter worries*. It even has a clock-controlled thermostat to fill the house with warmth *before* you get out of bed.



**2. Ignore** all the snow and rain and icy blasts . . . *outside* the house . . . !



**3. Inside** it's balmy as May . . . with soft heated air filling every nook and cranny!



**4. Decorate** in light colors! They'll never be dulled or streaked-with-grime from *clean* Gas fuel.



**5. No more frantic** calls for fuel! With Gas there's no storage problem, either!



**6. Heated by Gas** . . . even the basement is clean and fresh . . . and storage space can be used for fun!



**7. No costly mechanic** needed! There are no moving parts in the heating unit of a Gas furnace to wear out or break down!



**8. Neither rain, nor snow, nor wire-breaking ice storms** can interrupt the steady flow of fuel to your *dependable* blue Gas flame!



# Air-Conditioning-

What it can do for your "New Freedom Gas Home"!\*



1. Here's the amazing story! A single Gas unit brings you refreshing coolness in summer, wonderful warmth in winter ... and all at the flick of a finger!



2. Here's how you beat the heat! Gas air-conditioning keeps you cool, fresh, free from sticky humidity ... all summer long.



3. Here's how your house feels in winter. Healthful, humidified air flows evenly into every corner.



4. Here's the duster you'll never need in your grime-free, *air-cleaned* Gas air-conditioned home!



5. Here's the end of sleep-robbing ragweeds. Its pollen can't get in the tight-closed windows and filtered air.



6. Here's your cellar—free from fuel dirt and dust. Gas requires no storage space ... never runs out!



7. Here's one of the hundreds of homes that has enjoyed Gas air-conditioning for several years ... without a single complaint!



8. Here's *your* home fitted with an economical, right-for-your-own-size-house Gas air-conditioning system. Ah-h-h!

# GAS



THE WONDER FLAME THAT COOLS AS WELL AS HEATS!

For complete technical details... on year-round air conditioning as well as all the other "New Freedom" Gas systems and appliances ... ask your architect or builder to consult the local Gas Company. Or go in yourself! Any information you wish, will be gladly supplied free of charge.

AMERICAN GAS ASSOCIATION



So they  
lived happily  
ever after





# THINK WELL

when you consider  
heating your home

So, you're going to choose a heating plant for your home? Fine! But remember that care in its selection *now* will save you many cares in years ahead.

Perhaps, more than any other equipment in your home, the efficiency of the heating system will have a direct effect on the comfort, the health and the pocketbook of your family.

First, you will want to choose what, for your purpose, will prove the best fuel. We suggest serious consideration of gas. It is the cleanest burning of all fuels, without dust and odors. It does not require the storage space necessitated by other fuels. It is the one and only fuel you pay for as you use. Seemingly higher in cost in some areas, yes—but it is seldom so costly that the many benefits cannot be measured as real bargains.

Next, you will want to consider the types of heating. Hot water and steam heating are being widely used in modern homes, with gas-fired boilers generating the heat.







COMPLETE WINTER  
AIR CONDITIONING?



GRAVITY WARM  
AIR HEATING?



HOT WATER HEATING?



STEAM HEATING?

INDIVIDUAL  
ROOM HEATING?



Warm air heat, circulated by gravity, also remains popular and economical. Forced warm air heating or winter air conditioning is being chosen where the building budget permits this type of installation which heats, filters, humidifies and circulates the air. Individual room heating also is being widely used in southern climates for heating entire houses, and in colder climes for auxiliary heating of hard-to-heat rooms.

Perhaps the most important thing to remember is that you must live with your heating system a long time. For that reason, it is best to have competent advice and assistance in making your choice. The experience of your architect, your builder, your heating equipment contractor and your gas company can be valuable in helping you to make the final decision. They can aid you in choosing for your home the proper Bryant automatic gas heating equipment . . . the installation with which you can "let the pup be furnace man."

**bryant** GAS HEATING



# IDEAL INDOOR WEATHER

... fully controlled ... is yours  
with the basement-type Bryant  
Winter Air Conditioner



Five different jobs are handled automatically by the Bryant Winter Air Conditioner to provide your home with the most dependable, comfortable and healthful heat.

First, it pulls cold air from all areas of the house, then draws it through a filter of glass fibers which removes any dust, lint or dirt particles. This air is heated by passing through a chamber of tubes inside which hot gas flames are concentrated, and over a humidifier which supplies the proper amount of moisture. A quiet, powerful fan then forces the warm, clean, healthful air throughout the house.

The model shown at the left is the BA-88, famed for its sturdiness and long life, primarily because it is equipped with streamline heat exchanger and burner heads of sturdy *cast iron*, the construction that assures many years of service without replacement of these vital parts. It is controlled by a single thermostat placed in a central point of the house. A similar model, with steel heat exchanger, and lower in cost, is available for use in those areas where such construction will provide satisfactory service.

Enclosed in an attractive metal cabinet finished in gray crackle and requiring comparatively small space, this winter air conditioner is being selected for thousands of homes in which the heating installation will be placed in recreation room or compact utility room.

bryant



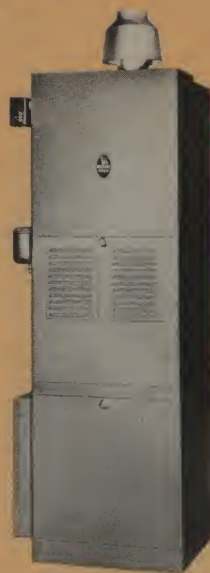
# TUCK AWAY

the Bryant Vertical Winter  
Air Conditioner in a closet,  
if you choose

When space is precious in that home of yours, nothing can be better than the Bryant Vertical Winter Air Conditioner to do a complete winter air conditioning job in the smallest possible amount of space.

So compact that it can be installed in a closet, this equipment is ideal for the modern small dwelling or the home being planned without a basement. It also is being used effectively in apartment houses where it provides each occupant with direct control of the temperature of his own suite.

Illustrated at the right is the VB model which possesses all the advantages of its big brother piece of equipment shown on the opposite page. It draws cold air from living areas, cleaning this air by passage through filters of finely spun glass. It heats this air by free passage through a series of finned tubes in which the hot gas flames are enclosed, then passes the air over a humidifier which injects the moisture content, thus supplying air that is more comfortable to live in, easier to breathe, more gentle on delicate nose and throat membranes. This air, then, is moved into areas to be heated by means of a silent, forcing fan. The VB model has the *cast iron* heat exchanger and burner heads which add years to the life of the original equipment. For installation in areas where service is not severe, there is another model with steel heat exchanger.



completely automatic heating



# RADIATION HEAT

by hot water or steam is  
efficiently delivered by the  
proper Bryant boiler



If you plan to heat your home by hot water or steam, make certain that the boiler you install is built to last, is capable of generating and delivering an ample amount of heat quickly, efficiently and economically.

Because the water tube sections and burner heads which are subjected to the intense heat of gas flames are made of *cast iron*, the Bryant Boiler will outlast less sturdy equipment by many years. Water tube sections are scientifically shaped so that gas flames follow a flow under, around and over them to quickly transfer a maximum amount of heat. Burner heads have raised drilled ports which are most efficient for producing the greatest amount of heat.

The Model 26 Bryant Boiler, shown at the left, is particularly suited to forced hot water radiation systems and the relatively new panel or radiant heating method in which pipes are concealed beneath floors or inside the side walls and ceilings. All Bryant Boilers are equipped with pilot lights and dependable gas-actuated controls, so reliable in their automatic operation that you can feel free to "let the pup be furnace man."



bryant



# WARM AIR HEATING

with the Bryant Gravity  
Furnace fits the small  
home budget

Heating of homes by warm air, circulated through the furnace and house by gravity, has been a popular method for many years.

Designed specially for small and medium size homes, the Bryant GF-56 Furnace provides completely automatic, clean and inexpensive gas heating of this type for families who once might have thought this enjoyment too costly for their budgets. Installed in the basement, this furnace responds whenever the room thermostat calls for more heat. You set it in the fall, and forget it until the following spring.

Sturdy heat exchanger and burner of *cast iron* are built to stand up under years of hard service. Baffles of *cast iron* guide the hot products of combustion, causing them to make maximum contact with inner walls of the heating element. Special finned construction inside and outside of the heating chamber extracts every bit of useful heat and passes it on into the areas to be heated. An inner jacket serves as a radiation shield, confining the heat for passage through the ducts and preventing escape through the outer casing.



completely automatic heating



# FULLY CIRCULATED HEAT

*is provided from a compact  
unit with the Bryant Console  
Circulating Heater*



When circulating heat is desired for the small, basementless house or a single large room, three requirements are necessary. The heater should be compact, should have sufficient heat output to serve wide areas, and should be economical in operation. All of those conditions are met by the Bryant Console Circulating Heater which also is so attractively designed and finished in ivory, beige and grained walnut that it harmonizes well with home surroundings.

This heater takes little more space than an ordinary radiator. It can be placed conveniently along any wall which permits carrying of the vent. Heat is produced by means of a durable, all-welded heating element and a scientifically designed, precision-machined burner. Special inner baffles assure extended fire travel and uniform distribution of heat. Protective shields and insulation prevent overheating of the cabinet and the floor.

Control can be manual, operated by a simple turn of a convenient handle in a side panel door, or can be completely automatic by inclusion of the proper thermostatic control. Thus, in this compact unit . . . whether used in home, school, office, motor hotel, cottage, shop or store . . . the user can enjoy many of the advantages provided by larger, more expensive installations.

bryant



# INDIVIDUAL ROOM HEATING

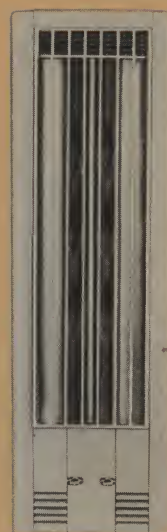
by means of the Bryant Panelray  
Heater takes no floor space,  
assures speedy warmth

Where conditions require auxiliary heating for certain rooms, or where milder climate makes it unnecessary to have a central heating plant, the new Bryant Panelray Wall Heater supplies sufficient warmth quickly, when and as needed.

So attractive in its design and its white, ivory and dark walnut finishes that it harmonizes with every decorative scheme, this heater can be used in any room of the house. Fitted snugly into the side wall, it uses none of the floor area. All flames are completely enclosed, swirl through a baffled metal tube which sends radiated heat into the room at body height. This heat exchanger principle produces the greatest possible amount of heat for the fuel consumed.

Panelray Heaters can be installed singly or in dual combinations for adjoining rooms, using the same vent. Each operates individually, ignites by pilot light, is operated manually or, if desired, by automatic thermostatic control.

Here is the ideal heater for the room over the porch, over the garage, the servants' quarters or the playroom and, in many homes, a welcome addition to the bath or kitchen. There also are many other small Bryant wall heaters, portable room heaters and fireplace radiant heaters which can be used for auxiliary service.

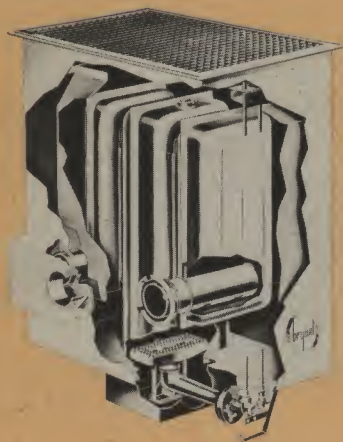


completely automatic heating



# HIDDEN BELOW THE FLOOR LINE

a Bryant Floor Furnace  
provides an abundant  
supply of warm air



In many thousands of the new basementless homes which America will build, the heating problem can be satisfactorily solved by floor furnaces which will supply heat quickly, economically and plentifully . . . equipment such as the Bryant Floor Furnace, now being made in four different models.

These new floor furnaces are scientifically designed to provide a volume of heat with a minimum of fuel consumption. Inner casings are generously large in order to permit greatest possible air flow around the heating element and over heating surfaces. Baffles inside the heat exchanger assure long fire travel, therefore put all of the heat to work. Burners are of sturdy *cast iron*, precision-machined for efficiency. Grilles are of long-wearing steel, with edges rounded to fit close to floor or carpet.

There is a particular type to answer every floor furnace need. One model has a large, single horizontal grating and a single return duct. Another has two vertical grille outlets to serve adjoining rooms. Still others deliver warm air through multiple ducts required to heat several rooms, with either a large single return or smaller individual returns from each room. All provide positive, economical heat for modern, basementless homes.

bryant



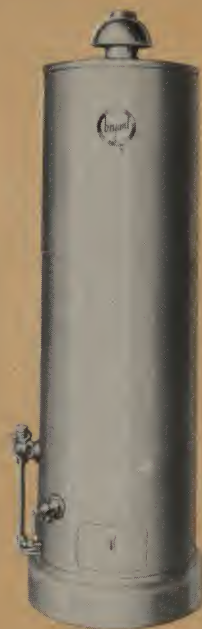
# PLENTIFUL HOT WATER

is always "on tap" in  
homes equipped with  
Bryant Water Heaters

You will never hear the doleful question . . . "who used all the hot water?" . . . in homes equipped with one of the new Bryant Automatic Storage Water Heaters, for this equipment is designed to keep a plentiful supply always ready at the turn of the faucet.

There's a full tank of piping hot water all the time because of a special heating method. Gas flames pass through a baffled heat tube located in the center of the water. Every bit of heat, therefore, is used to the fullest extent in its job. And super-insulation keeps the water teeming hot until it is drawn off. Operation is completely automatic, too. No more running to turn the gas higher when baths and dishes call for lots of hot water. No more chasing downstairs late at night to turn the gas down when someone forgot earlier.

Good-looking, too . . . Bryant Water Heaters are so attractively streamlined that you'll even be proud to have one in your kitchen. And, if you are one of those who likes to have lots of working space in the kitchen, there's the Bryant Table-Top Water Heater which not only brings all the advantages of the larger models, but also offers its low, flat porcelain top for useful purposes.



**completely automatic heating**





Ask for a  
recommendation on

**bryant**  
GAS  
HEATING

to fit your new home  
plans



YOUR LOCAL GAS COMPANY, BRYANT DEALER OR  
THE NEAREST BRYANT DISTRIBUTOR (listed below)  
CAN GIVE EXPERT ADVICE IN HELPING YOU SELECT  
THE CORRECT HEATING SYSTEM FOR YOUR HOME.

**ALABAMA**  
BIRMINGHAM 5.....2020 11th Ave., Phone 7-7173  
**ARKANSAS**  
LITTLE ROCK.....831 Pyramid Bldg., Phone 7806  
**CALIFORNIA**  
SAN FRANCISCO 4.....580 Market St., Phone Garfield 7700  
**COLORADO**  
DENVER 4.....1031 Santa Fe Drive, Phone Keystone 1368  
**DISTRICT OF COLUMBIA**  
WASHINGTON 5, Lobby No. 3, Shoreham Bldg., Phone Dist. 6727  
**FLORIDA**  
CLEARWATER.....P. O. Box 501, Phone 2428  
**GEORGIA**  
ATLANTA.....722 Sherwood Rd., N.E., Phone Vernon 8077  
**ILLINOIS**  
CHICAGO 44.....5108 W. Madison St., Phone Mansfield 6120  
**INDIANA**  
HAMMOND.....5231 Hohman Ave., Phone 2402  
INDIANAPOLIS 4.....533 Massachusetts Ave., Phone Riley 3077  
**KANSAS**  
WICHITA 2.....208 N. Waco Ave., Phone 2-3484  
**KENTUCKY**  
LOUISVILLE.....633 S. 5th St., Phone Wabash 3667  
**LOUISIANA**  
NEW ORLEANS 13.....844 Baronne St., Phone Magnolia 5525  
**MASSACHUSETTS**  
BOSTON 16.....110 Arlington St., Phone Hancock 6756  
**MICHIGAN**  
DETROIT 1.....415 Brainard St., Phone Temple 1-4545  
**MINNESOTA**  
MINNEAPOLIS 6.....3020 E. Franklin Ave., Phone Atlantic 4361  
**MISSOURI**  
KANSAS CITY 2.....3323 Main St., Phone Logan 4811  
ST. LOUIS 1.....494 Arcade Bldg., Phone Central 4426  
**NEBRASKA**  
OMAHA 3.....4012 Dodge St., Phone Atlantic 5641  
**NEW JERSEY**  
RIDGEWOOD.....277 Orchard Pl., Phone Ridgewood 6-2944  
**NEW MEXICO**  
ALBUQUERQUE.....507 E. Central Ave., Phone 20592  
**NEW YORK**  
BINGHAMTON 45.....134 Leroy St., Phone 2-1587  
BUFFALO 2.....443 Delaware Ave., Phone Cleveland 3241  
NEW YORK CITY 10.....122 E. 42nd St., Phone Murray Hill 3-4838  
**OHIO**  
CINCINNATI 2.....626 Broadway, Phone Cherry 2440  
CLEVELAND 15.....2036 E. 22nd St., Phone Main 5732  
**OKLAHOMA**  
OKLAHOMA CITY 4.....1633 N. W. 5th St., Phone 3-5838  
TULSA 1.....2428 E. 11th St., Phone 9-5423  
**PENNSYLVANIA**  
PHILADELPHIA 23.....916 N. Front St., Phone Market 3133  
PITTSBURGH 12.....119 Federal St., Phone Cedar 8181  
**TENNESSEE**  
MEMPHIS 3.....Sterick Bldg., Phone 5-7721  
**TEXAS**  
AMARILLO.....113 E. 13th Ave., Phone 2-3935  
DALLAS 1.....P.O. Box 1211, Phone Dixon 41588  
EL PASO.....718 N. Stanton St., Phone Main 652  
HOUSTON 2.....602 Kirby Bldg., Phone Charter 4-1272  
SAN ANTONIO 5.....810 Insurance Bldg., Phone Fannin 1511  
**WEST VIRGINIA**  
HUNTINGTON 1.....317 Wilson Court, Phone 26234  
**WISCONSIN**  
MILWAUKEE.....743 N. Fourth St., Phone Broadway 6193  
**WYOMING**  
CASPER.....Box 525, Phone 1501



# How to make rooms color perfect

with the new

**NAIRN COLOR CORRELATION PLAN**



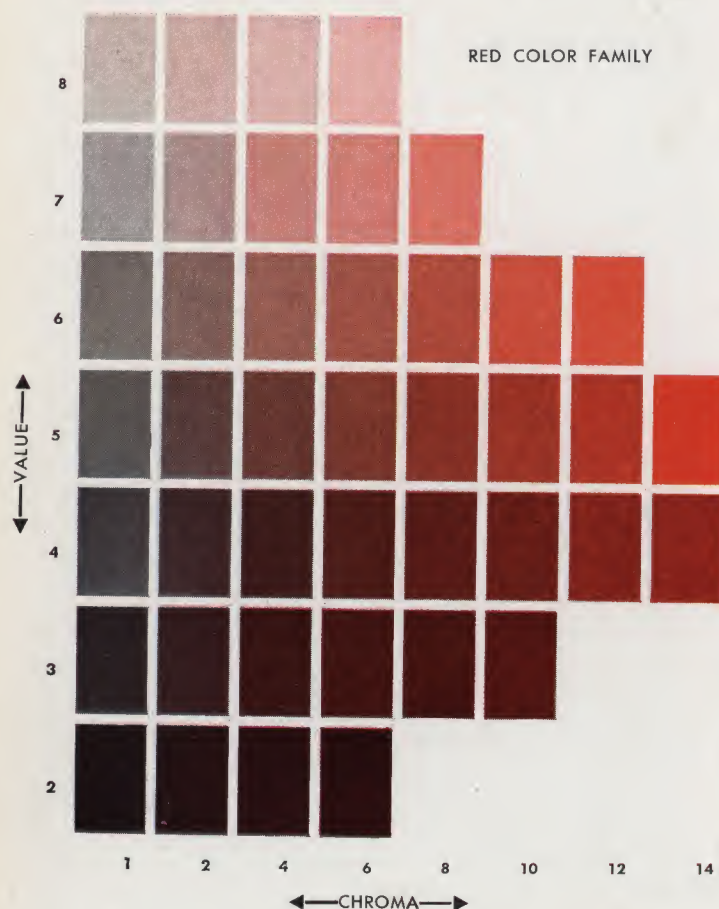


# What makes a room COLOR-PERFECT?

It's the perfection with which every single article in a room—from the floor and walls down to the last lamp-shade or saucepan—fits right into the color scheme, that makes a room *color-perfect*!

And now, for the first time, thanks to the Nairn Color

Correlation Plan, you can carry out your own room-wide color schemes in every detail, without spending a mint of money on custom work or special orders! All you have to do is base your colors on one of the lovely new Nairn floors of linoleum—and the rest is easy!



COLOR NOTATION CHART REPRODUCED BY COURTESY MUNSSELL COLOR COMPANY, INC.

**What the plan is:** The Nairn Color Correlation Plan is a *proven* method of creating completely harmonious color schemes for entire rooms, through the use of Nairn *Color Correlated* linoleum. This method is so simple that anyone can use it!

The basis of the Plan is the scientific fact that all colors in the same color family “go” beautifully together!

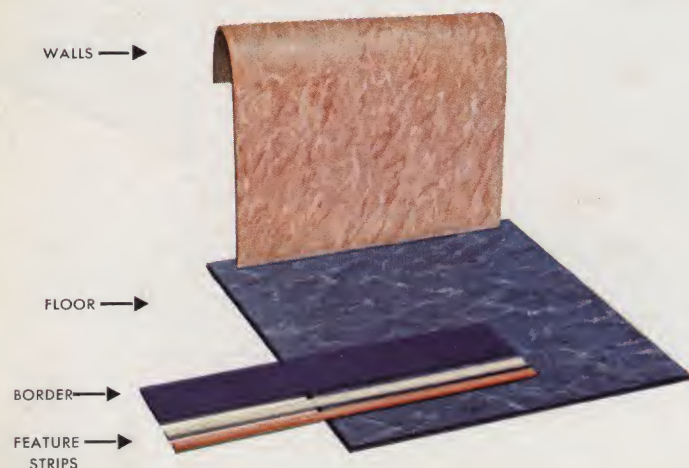
**What is a color family?** It's a group of colors of the same hue but of varying degrees of lightness or darkness (value)—and varying degrees of dullness or brightness (chroma). Look at the “chart” on the left and you'll see the Red Color Family. Any one of these lovely “Red” colors will “go” enchantingly with any other Red in the same family—in a room, a spring costume, or a painting!

**Nairn color families.** After exhaustive research on today's decorative trends Nairn selected the *most favored color families* represented in home furnishings of every kind. Then Nairn *Color Correlated* all their linoleum patterns — for floors, walls, counter tops, insets, borders, etc.—that is, used in all these linoleums *correctly related colors from one or more of the selected, popular, color families.*

This means that no matter what Nairn floor pattern you choose for a room, you can always find a Nairn wall linoleum and Nairn plain linoleum for accessory work—in the same color family as the floor!

**Contrast, too.** Of course Nairn is not suggesting that you do a whole room in tones of one color family alone. Contrast is as vital to decorating as breath to life! Nairn takes care of this necessity, too, for their basic color families were also selected with an eye to providing the *most perfect contrasts* as well as the *most perfect harmonies*!

For instance, glance at this “ensemble” of Color Correlated Nairn linoleum. A floor of richly marbled blue Nairn linoleum—(Purple Blue Color Family), with “Rose Agate” Nairn wall linoleum—(Red Color Family)—for walls, and ceiling, too. Then, an accessory color from each “family” for the floor border—Marine Blue set off with Dusty Pink and White strips.





# COLOR CORRELATION PLAN

## Color Correlated home furnishings are easy to find!

The very fact that Nairn colors are drawn from the color families *most* in demand in decoration today means that all Nairn patterns are now Color Correlated with other home furnishings of every kind and price! Yes—with everything, from draperies to bath towels, from fine upholstery to double boilers, from rare glass to 10¢ china! Now you can quickly find all the accessories you need to complete any color scheme based on a Nairn floor—in the very same or correctly contrasting color families as the linoleum itself!

*Now you can be sure of success when you decorate. You can make your rooms sing with color—beautiful as rich chords on the organ, or harmonious as the sweet chime of a carillon of bells!*



**Color checking never stops!** Above you see a typical scene at the Congoleum-Nairn plant—members of the Nairn Color Correlation staff comparing the colors of new home furnishing items with a sample of a proposed new Nairn pattern, to be sure that it will Color Correlate perfectly with accessories on sale in stores everywhere! This work has been going on since 1937—a pioneer service to home makers—and is kept continuously up to date. As fundamental changes in decorative trends appear these changes are promptly reflected in Nairn Color Families used.

## Let's try the Nairn plan in decorating a kitchen...

The color scheme started with the Nairn Treadlite floor, of course. Nairn wall linoleum that harmonized with the background of the floor was selected. A Yellow Nairn linoleum for the counter tops—in the same color family as the yellow floor accent—came next—and a Black linoleum for the baseboard. Then curtains, bowls, canisters, etc., that Color Correlated with red, blue and green accents in the floor, were readily found in nearby stores... So you see, it's easy to make a room color-perfect this way!

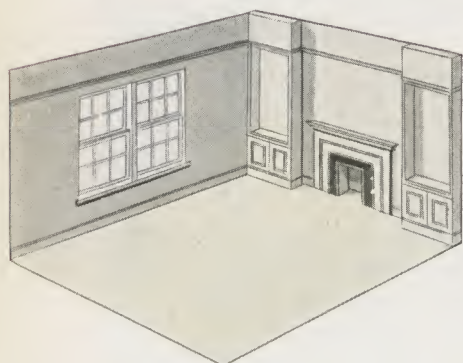


... AND NOW LET'S SEE JUST HOW THE NAIRN COLOR CORRELATION PLAN WORKS IN ACTUAL PRACTICE



# Let's decorate a living room with the help of the

NAIRN COLOR

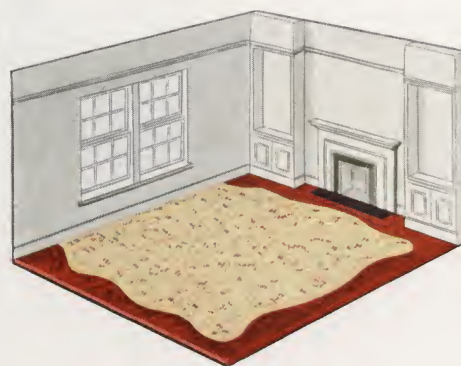


Step No. **1**... First we'll look at the room carefully...what are the problems?

This is an average room, such as most of us have—fair sized and rectangular. The furniture is in good condition but we need new slip covers and draperies. The rug—a big blue one—is badly worn at the edges. We decide to cut it down all round and give it an effective, colorful background in the form of a linoleum floor. So we take a sample of the cut portion of the rug for color, and go to the nearest Nairn dealer . . .

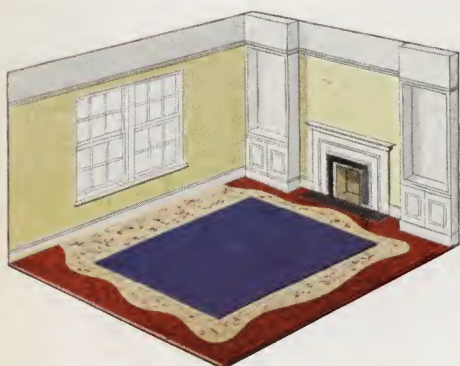
Step No. **2**... We choose the floor color

We have a lot of fun looking at Nairn Treadlite patterns. We pick out three that "go" with our rug color—a soft blue marbled pattern in the same color family—a deep claret red marbled pattern, and an ivory one with flecks of blue and claret. We discard the blue pattern—(a blue floor and a blue rug would lack the contrast we'd like)—and then the salesman makes a brilliant suggestion: why not *combine* the two other patterns we liked? Use the claret as a deep border and the lighter design, cut in wide scallops, as a setting for the rug? A thrilling idea! We decide to follow it . . .



Step No. **3**... We choose the wall color

With three lovely colors harmoniously combined for our floor—the Veltone claret border, the scalloped ivory design with flecks of blue and claret, and the blue rug—there are a lot of possibilities for our wall color, all good. We might match the claret in a lighter tone on the walls. Or we might use a pale blue, in the same color family as the rug. Either would be effective, but finally we decide on a clear, light, golden yellow because it makes an attractive contrast with the floor colors and will keep the room looking cheerful on dark days!

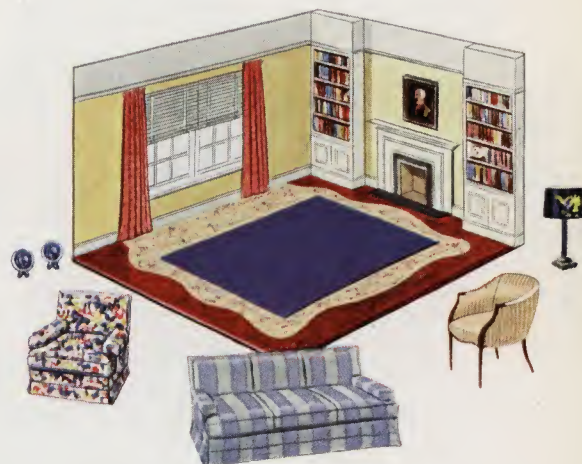




# CORRELATION PLAN

## Step No. 4 ... We choose our fabric colors and small accessories

Our basic color scheme is now set—blue, claret, ivory, and gold. Everything else in the room should repeat these hues—in these same color families, *but in lighter or darker tones* than those used on the floor and walls. (Of course, white and black accents can be used, too.) So we go shopping and return triumphantly in a surprisingly short time. We have picked a two-toned blue fabric for the sofa, a rosy brocade for the draperies, and a charming rose and blue print for the big chairs. Also, a dull gold fabric for the other armchair. Two exciting new lamps—and some fine old blue and white plates—complete the picture!



## AND NOW WE'RE DONE ... HERE'S THE COMPLETE PLAN!

Lovely, isn't it? Interesting and unusual and *color-perfect*, too! Its perfection is due to the fact that we could get all our accessories in the right color families, thanks to the Nairn Color Correlation Plan!



You'll find photographs of this room—before and after redecorating—on page 15.

AND NOW WE'LL SHOW YOU—IN FULL COLOR PHOTOGRAPHS OF ACTUAL ROOMS ... the experiences of three families in using the Nairn Color Correlation Plan to solve their individual room problems ...



# FIRST we'll step into the ABBOTTS' little house . . .

The Abbotts are a young couple just starting out . . . and they are starting on the right foot with a charming little dream house all their own! (Their experiences decorating it and pictures of their rooms are also shown in the Nairn Technicolor Moving Picture, "New Lives for Old," produced by Congoleum-Nairn Inc.)



*They both wanted* the most economical job they could get—and at the same time the highest quality for the money. After comparing prices and consulting their linoleum store, they settled on Nairn linoleum. Their choice of Nairn Treadlite for the floor gave them important improvements at no extra cost! Treadlite is the finest inlaid linoleum on a built-in felt backing, for maximum smoothness and longer wear, as well as beauty. With its special construction, no other felt lining is needed! . . . And they were thrilled to find that beautiful Nairn wall linoleum will last a lifetime, saving the annual expense of repainting kitchen walls!

NAIRN





From Nairn Technicolor Motion Picture—"New Lives for Old."

## Barbara Abbott's heart's desire was a colorful, modern kitchen!

*She wanted* a kitchen color scheme as nicely worked out as her own spring costume—and this is how she got it, with the help of the Nairn Color Correlation Plan!

First she picked her floor—a Nairn Treadlite floor with a gay crimson, black and green design on a marbled ivory ground. And *there* was her color scheme—right *in* the floor!

Her cabinets were painted ivory, to match the background of the linoleum. The crimson floor accents she picked up in bright touches around the room—in canisters, gingham curtains, and leatherette for stool top and bench. The green accent she used sparingly, combined with crimson, in dish towels and breakfast china. Finding all these articles in the right color families was quick and easy, since the Nairn Color Correlation Plan had already seen to it in advance that all Nairn colors correlated perfectly with other furnishings in the stores.

For her walls Barbara chose a harmonizing Nairn wall linoleum, "Parian Red," and Black linoleum for baseboard and counters.

**COLOR CORRELATION PLAN**

*He wanted* her to have the easiest-to-clean kitchen possible! And when the man at the store explained how smooth and stainproof Nairn linoleum is, why, it was Bill Abbott who insisted on having linoleum on all hard-to-keep-clean surfaces. That's why in the Abbott kitchen not only the floor and counter tops but the walls and baseboard, too, are covered with Nairn linoleum! A quick wipe with a damp cloth or a flourish with a mop will remove any spot in a jiffy. And what a blessing that smooth, unbroken sweep of counter tops is going to be to Barbara!



From Nairn Technicolor Motion Picture—"New Lives for Old."



Notice how the sink top and splashback are covered with one seamless strip of linoleum, so there's no dirt-collecting joint! . . . And isn't Barbara's idea of placing her sink across the corner windows a good one? It gives her a sunny view to cheer up dishwashing—and a triangular shelf to hold her beloved plants!



The **ABBOTTS** like fresh, clear, springlike



Clever "personal-ized" floor effects like this can easily be set in a Nairn linoleum floor—at slight expense.

"We never can afford a good rug for this big room, Bill," Barbara said, when their house was still in the blue-print stage—"how about a colorful linoleum with scatter rugs?" . . . And their architect explained that by deciding on a linoleum floor ahead of time they could save by using an economical plywood underfloor and have a perfect foundation for linoleum! . . . So, after some thought, they picked out plain green Nairn linoleum in two Color Correlated shades—using one as a wide border around the room and reaching out into the hall. They adopted an interesting touch, suggested by the salesman, too—the use of 6-inch Yellow feature strips at intervals, where the patterns meet.

**NAIRN COLOR**



From Nairn Technicolor Motion Picture—"New Lives for Old."



colors around them . . .

and materials  
that simplify  
housekeeping,  
too

See how Nairn  
Color Correlated  
linoleum gave  
them both!

**CORRELATION PLAN**

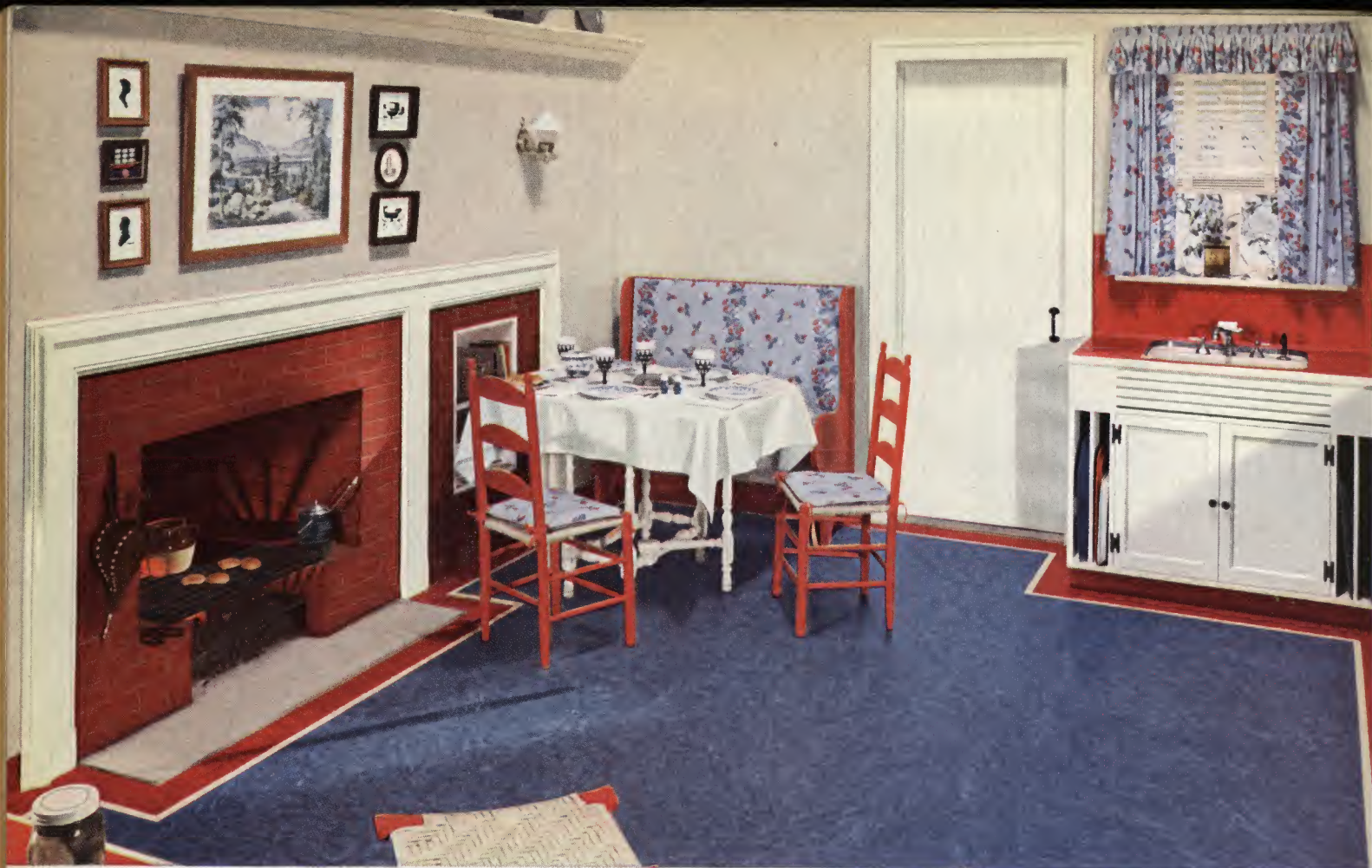


The Abbots had early spring colors in mind—pussy-willows and jonquils—when they decorated their bathroom! The floor is Nairn plain linoleum in Pearl Gray, with white and yellow feature strips. The yellow is picked up in the walls—(Nairn wall linoleum, “Maize”)—and in towels and stool top. See how the yellows in the linoleum Color Correlate with the fabrics.

This close-up of the wall pattern used in this bath shows you the delicate veining and color beauty characteristic of Nairn wall linoleum! This modern material is ideal for a bathroom from every practical angle, too—waterproof, stainproof, and crackproof—and far less expensive than other permanent wall coverings.







*Modern efficiency wedded  
to the charm of an  
old time kitchen!*

The Drakes love cosy, informal kitchen parties and charcoal broiled steaks, so they planned a kitchen that's part picnic place! Mrs. Drake thought, too, that a kitchen where the family gathers should be gay and colorful and especially easy to keep clean, so she used Nairn linoleum with a free hand. She started with a lustrous deep blue Nairn Treadlite floor, set off with a Crimson and White border. Then she chose Crimsqn linoleum for counter tops and a creamy Nairn wall linoleum, "Moonstone," with pale blue veinings, for her walls. Of course, the Nairn Color Correlation Plan made it easy for her to get flowered chintz, goblets, china and saucepans in harmonizing shades!



Notice this detail of cabinets and baseboard carefully — you'll see that the toe space under the cabinets and the baseboard around the room are "coved" — that is, the border and baseboard are one continuous piece of linoleum. This eliminates the usual dust-catching crack where floors and wall meet!

**NAIRN COLOR**



# NOW... let's visit the DRAKES ...



From Nairn Technicolor Motion Picture—"New Lives for Old."



From Nairn Technicolor Motion Picture—"New Lives for Old."

The dreams and plans and hopes of years are embodied in this delightful house! "We didn't want just a 'nice' house—" declared Mrs. Drake, "we wanted a house planned *just for us*, to express *our* tastes and help us live the way *we* like!" (The Drakes' experiences are also shown in the Nairn Technicolor Moving Picture, "New Lives for Old," produced by Congoleum-Nairn Inc.)



Mrs. Drake keyed her whole living room to the sparkling colors of her cherished collection of old glass! And wasn't it clever of her to realize how much more effective her room would be with the contrasting blue tones of this Veltone Nairn Treadlite floor—harmonizing, as it does, with the rich hues of the glass—instead of the usual type of floor? It holds the room together, decoratively speaking—and how beautifully it Color Correlates with the rosy rust, tans and blues in the rug, wallpaper and upholstery!

CORRELATION PLAN



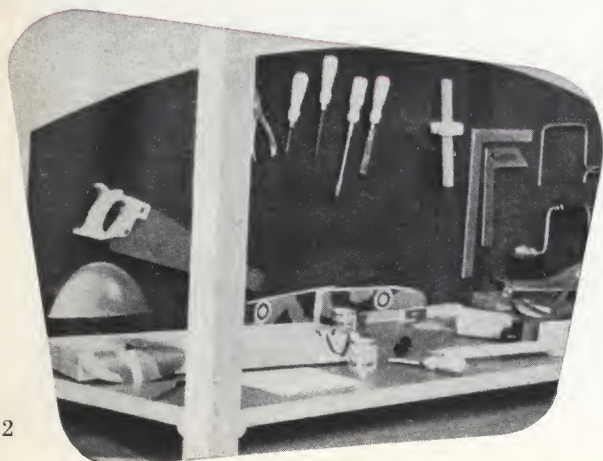
## Planned for a



Pete and Mike Drake certainly are in luck! They have a room that can take hard knocks and spills. The walls are covered with stainproof Nairn wall linoleum in the "Parchment" pattern—the baseboard with Nairn plain linoleum in Mahogany. The floor is the "Colonial Plank" design in tough, resilient Nairn Treadlite DeLuxe—the finest inlaid linoleum on felt backing. Its surface is extra smooth and easy to clean. *Even ink washes right off!*



## NAIRN COLOR CORRELATION



Take a close look at the swell work bench Dr. Drake devised for his boys! It's covered with Nairn plain linoleum in Green. On the wall behind it is a mighty convenient feature—a piece of Nairn cork carpet set into the wall linoleum, where tools can be hung up and mechanical drawings thumb tacked in place for easy reference!



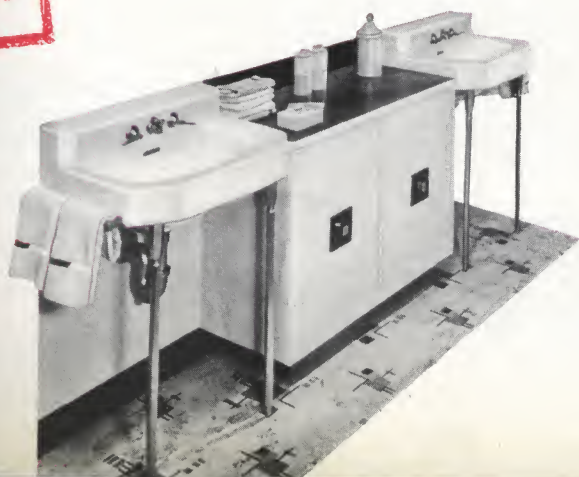
# 2-BOY family...

From Nairn Technicolor Motion Picture—"New Lives for Old."

*Two boys, two basins...* what a help this is in getting young Pete and Mike Drake off to school on time! Walls, ceiling, door, baseboard, linen cabinet, and the decorative panel between the mirrors are all done in splash-proof Nairn linoleum! ... See how perfectly the Nairn Color Correlation Plan works out here. Not only do the many linoleum patterns Color Correlate with *each other*, but they also Color Correlate with the towels, curtains, toilet bottles, etc.! Mrs. Drake had a lot of fun planning this color scheme—(all the colors are found in the Nairn Treadlite floor)—and no difficulty getting everything to carry it out!



PLAN



*Right* is a small reproduction of the upper part of the bathroom door. This is covered with plain Green linoleum and set right into it is the same delightfully comic undersea scene which appears on the panel between the mirrors! It's all made from Nairn linoleum in plain colors—Turquoise, Dusty Pink, Coral and White.



*Left*—the linen cabinet. Made entirely splash-proof with the front and sides covered with the same Nairn wall linoleum—"Marble White," used on walls and ceiling. Top and decorative squares around knobs are plain Mahogany, like the baseboard.





From Nairn Technicolor Motion Picture—"New Lives for Old."

*NOW...* we'll call on *Mrs.*

See how she brought her 25-year-old house up to date...

**NAIRN CO.**



What an impression of warm welcome and good taste the first glimpse of this entrance hall creates in the visitor to the Gregory home! Since it is almost a part of the living room (see opposite page) Mrs. Gregory wisely decided to use on the floor the same claret red Treadlite chosen for the border of the living room floor. The wall paper in this hall is a good example of how easy it is to get Federal style furnishings, as well as modern ones, in colors to "go" with Nairn patterns!

*Below*—the handsome design set in the hall floor—is cut from Dusty Pink and White linoleum. In summer, when the rug is up, it decorates the cool, uncovered floor.





# GREGORY

Mrs. Gregory had a free hand—and how she made the dust fly in her old living room! Knocked out windows! Tore down old book-cases and built new ones. Threw out the old mantle . . . (Her exciting experiences are shown in the Nairn Technicolor Moving Picture, "New Lives for Old," produced by Congoleum-Nairn Inc.)

## R CORRELATION PLAN



At her linoleum dealer's Mrs. Gregory chose the unusual floor you see—a wide border of claret red Nairn Treadlite around an ivory pattern with claret and blue flecks, cut with a *scalloped* edge! A perfect setting for her blue rug! Then she carefully selected wall paint, curtains, lamps, etc., to harmonize with her floor colors. (The Nairn Color Correlation Plan made it easy to find them in the right color families.)



# Just look what's happened to the **GREGORY'S**

## BEFORE...

An uninspiring kitchen, certainly, with its dingy walls and drab color scheme! A step-wasting kitchen, too, poorly arranged and lacking in cabinet space and working surfaces. . . .



Look closely at this clever new window treatment! See how it eliminates dust-catching wood window trim and curtains—yet provides effective window decoration, too! Colored linoleum strips are set flush with the Nairn wall linoleum, "Parchment," which covers the walls! Colored strips are also set in the walls to form permanent frames for decorative prints—an unusual and interesting device . . . Remember, Nairn walls like these will last as long as the house—never need refinishing!

**NAIRN**



"hopeless"  
old kitchen!



*From Nairn Technicolor Motion Picture—"New Lives for Old."*

#### AFTER...

No wonder Mrs. Gregory's proud as punch of her "new" kitchen! She put in step-saving cabinets and a work-saving range. She covered the dingy walls with smooth, washable Nairn wall linoleum—and the door and ceiling, too! Best of all, she got a beautiful, resilient, Nairn Treadlite floor! She based her color scheme on its pattern—cream, tan, orange, mahogany, and emerald green. Nairn plain linoleum for baseboard, counter tops and breakfast table were available in the same color families—as were china, utensils, etc.!



COLOR CORRELATION PLAN



So easy to keep clean and fresh looking!—a Nairn floor needs only a double waxing about once a month with Nairn Self Polishing Wax (no rubbing—wash first with lukewarm water and mild soap). Between waxings just wipe up spots with a mop or damp cloth.



# The **GREGORY** bathroom used to be practically

Mrs. Gregory always hated to bring guests into this "chamber of horrors." No wonder! The floor is hideous—and cracked, too. The walls—depressing. The tub—an antique. The dressing table—a make-shift. The giant wardrobe you pass on the way in, looms like a monster about to pounce!



Blue! Pigskin! Gold! Here's a charming color scheme. Mrs. Gregory hesitated a long time over this. The marbled Nairn floor has a golden cast. The Nairn wall linoleum is "Parchment,"—a lighter tone of the Pigskin linoleum on the base-board. Shelf is Blue.

*Mrs. Gregory considered several color schemes before she made her choice . . . perhaps you'd like one of these better?*

There are a thousand and one Color Correlated schemes you can work out with the many enchanting Nairn patterns for floors, walls, and accessory work—all beautiful! In the one below, the floor is Crimson Nairn linoleum—the walls, "Parian Red," Nairn wall linoleum. White and chartreuse accessories are used for contrast.



**NAIRN**



# a museum piece... **BUT** look at it now!

Here's a miracle, if you like—but one that anybody can perform, with the help of a good Nairn linoleum dealer! The floor and walls are "twin" Nairn patterns, members of the same Nairn color family—Color Correlated with each other, and with the blue curtains! Baseboard is blue linoleum—"dressing-shelf," Ivory. But the most exciting transformation is the wonderful linen cupboard Mrs. Gregory made out of the old wardrobe! The drawer fronts are covered with Nairn wall linoleum, "Rose Agate," like the walls.



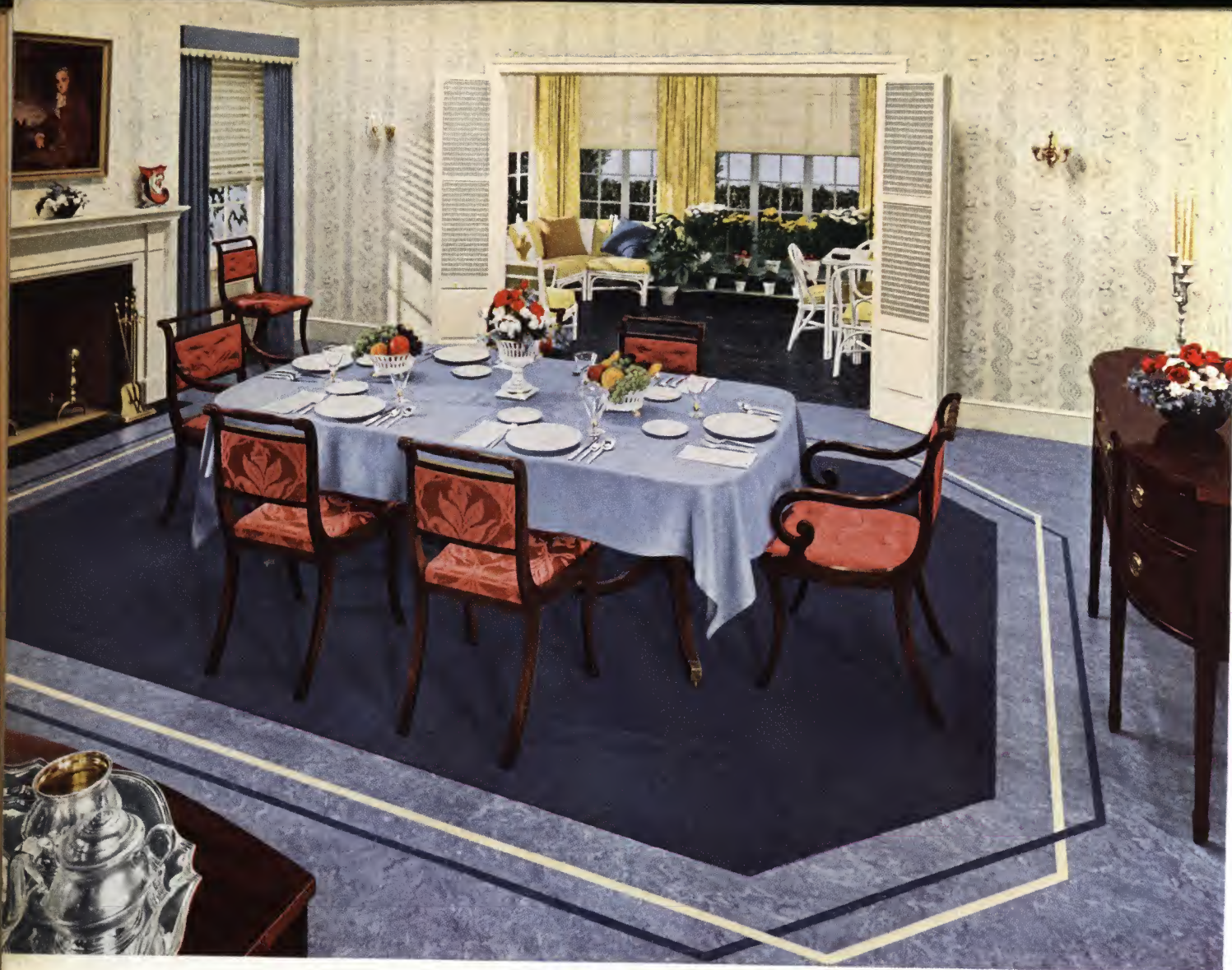
From Nairn Technicolor Motion Picture—"New Lives for Old."



**COLOR CORRELATION PLAN**

Isn't it wonderful how flexible Nairn wall linoleum is? Just look again at this bathroom—notice how smoothly the linoleum is carried round the curved wall section between the linen cupboard and the rest of the room? Look at the way it fits, like a glove, on the rounded edge of the tub recess? Not a crack or wrinkle! Nairn wall linoleum is cemented right to the walls and ceiling and lasts a lifetime.



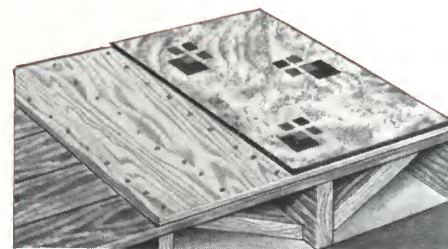


Everyone can't re-do every  
room at one sweep . . .  
start where the need is greatest . . .

**NAIRN COLOR CORRELATION**

### *Dining room need refurbishing? Give it two floors at once!*

See how effectively the contrasting feature strips set in this dining room floor *frame the rug!* That's floor No. 1—the winter floor, complete with rug. And in summer, when the rug is stored, you get an entirely different effect—a lovely expanse of cool looking Nairn Treadlite so interestingly “personal-ized” that no summer covering is needed! That's floor No. 2. The charming color scheme here, so appropriate with the Federal furnishings, started with the choice of the Treadlite floor in muted blues. Table linen, satin draperies, and wall paper were readily found in the same blue color family, for the Nairn Color Correlation Plan always sees to it that Nairn patterns are exactly the right hues to “go” with other new furnishings of every kind in the stores!



Mrs. Gregory wanted the smoothest floor possible. So she just had the old floors covered with economical plywood, thus providing the perfect base for the new Treadlite floor. This method is highly recommended for old and new installations alike.



*Sunroom down at the  
heels? Give it a sunproof  
beauty treatment!*

Windows are always being left open in sunrooms, letting rain pour in . . . and, of course, Sol's rays are always scorching away at everything! Choose a Nairn Treadlite floor and you can stop worrying. It will neither spot nor fade. The inlaid linoleum colors go through to the waterproof felt backing. Tracked-in dirt or mud wipes up in a second on a rich black and white Vel-tone pattern like the one here. An occasional waxing with Nairn Self-Polishing Wax keeps it fresh and bright for years!



*Bedroom need perking up?  
Give it a floor of your  
own design!*



Any design you like can be cut from contrasting colors and set in a new Nairn "personal-ized" floor! See how interestingly this was done in the floor above, with leaf-shaped insets cut from White and Dusty Pink linoleum. The design repeats the leaf motif in the curtains—a delightful touch! (Ready-cut Nairn Insets also exist, with which you can design "personal-ized" floors.)



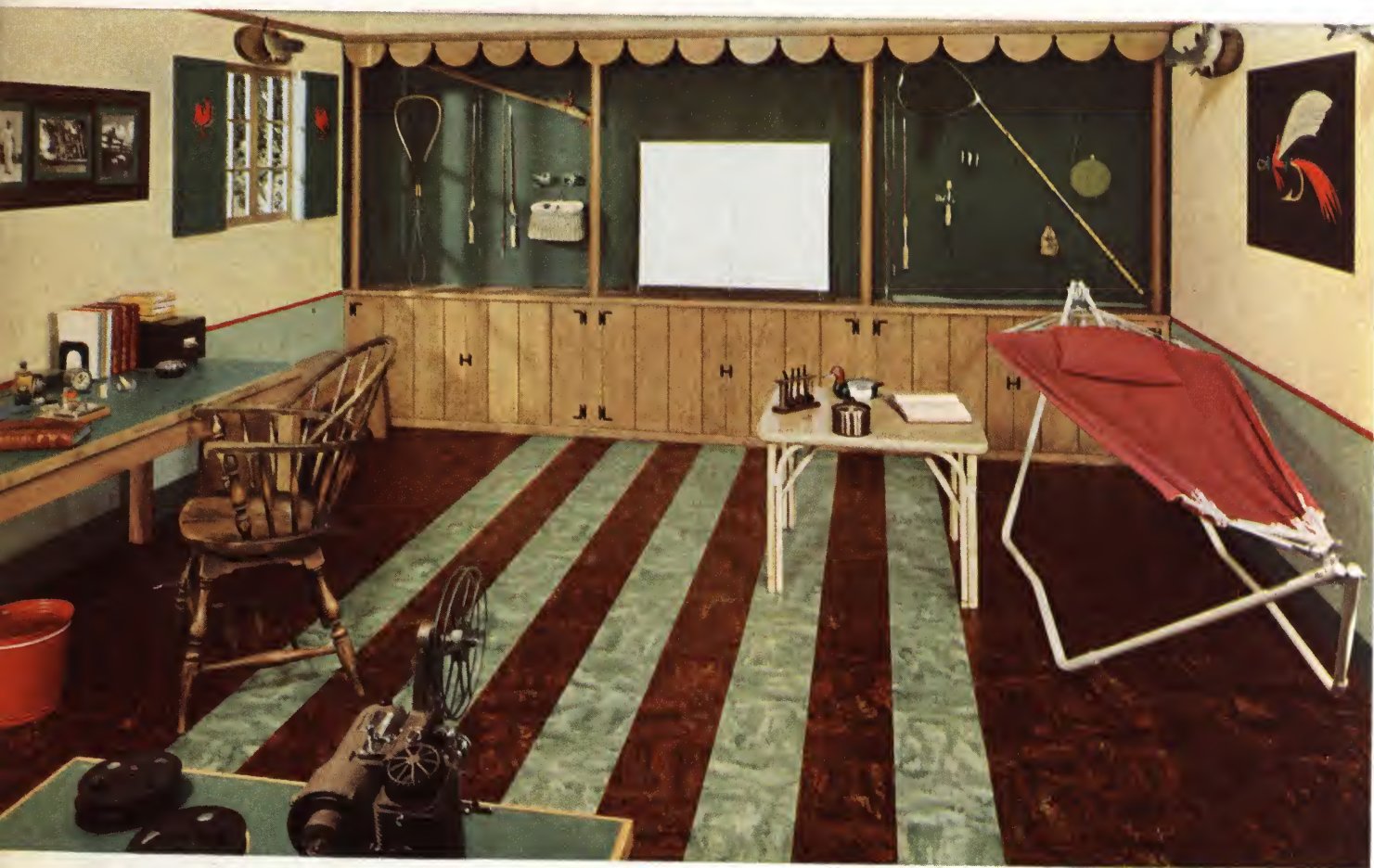
# Have you a good basement going to waste?

New Nairn Damp-Proof  
Flooring is not affected by  
moisture—it's perfect  
for Rumpus Rooms!

*From Nairn Technicolor Motion  
Picture—"New Lives for Old."*



Here you have a wonderful new flooring with a wear layer of inlaid linoleum and a specially treated felt backing that makes it the perfect covering to use on floors subject to dampness! At last you can enjoy all the beauty, resilience, and stainproof, easy-to-clean qualities of linoleum in a basement gameroom or laundry or on a porch. *No other material* suitable for these areas can give you the rich, clear colors of Nairn Damp-Proof Flooring! It comes in six lovely marbled hues in square or rectangular units, to be arranged in any design you wish. One interesting design is shown below, and there are many others you can make! This flooring is surprisingly economical, too! (Note: Your dealer must follow factory laying specifications.)



## So many ways linoleum helped in this fascinating hobby room

Linoleum made the stunning dry fly "picture"—the Royal Coachman—on the right hand wall . . . and it made the neat "frame" for displaying photographs on the opposite wall, too! There is practically no limit to the novel effects a skilled linoleum mechanic can produce with Nairn linoleum.

And what a winter paradise for an angler this converted basement is! Here he can pursue his other

hobbies—surrounded with reminders of his favorite sport—when Jack Frost bars him from the trout streams. (Nairn cork carpet provides the excellent display board for tackle!)

The floor, of course, is Nairn Damp-Proof Flooring—in rectangular Green and Mahogany marbled units. The side walls are Nairn wall linoleum—"Green Beryl" and "Maize," with a Crimson linoleum feature strip between. (The rough cellar walls were first covered with gypsum wall board, fastened to furring strips.) Table tops and shutters are Green linoleum . . . *Doesn't this make your fingers tingle to fix up your basement?*





THE PAGES PRECEDING illustrate the Beauty in interiors that may be yours by following the Nairn Color Correlation Plan and by using Nairn Color Correlated linoleum expertly installed.

REAL BEAUTY must be *lasting beauty*—beauty that you may enjoy today, tomorrow and in the years to come. The Nairn trademark on the product you buy is your assurance of this *beauty that endures*—your guarantee of “*Satisfaction or Your Money Back.*”

NAIRN IS THE OLDEST MAKER of linoleum in America with over fifty years of experience devoted exclusively to the manufacture of linoleum and linoleum installation accessories.

*Nairn Treadlite—Inlaid Linoleum on Felt Backing—the flooring used in the rooms illustrated in this book is the result of ten years of experience in manufacturing inlaid linoleum on felt backing. Through its use homeowners today may realize to the fullest the advantages of extra smoothness, protection from strain of underfloor movement, economy (no other felt lining required), and long wear that Nairn Treadlite assures.*


NAIRN WAS THE FIRST to manufacture linoleum *expressly for walls and ceilings*. This leadership has been maintained by years of product improvement and the development of thoroughly proven installation accessories and techniques.

NAIRN DAMP-PROOF FLOORING — Inlaid Linoleum on Felt Backing — is an exclusive Nairn product, making available for the first time a *resilient flooring* with all the advantages of *genuine inlaid* linoleum on floor areas subject to dampness.

YOUR NAIRN DEALER employs skilled craftsmen, men trained to do every detail of the fine installations shown in this book. Thousands of these craftsmen have been and are being trained in modern installation methods *directly by Nairn* either at the Kearny Installation School or in field schools conducted throughout the country.

FOLLOW THIS FORMULA—*The Nairn Color Correlation Plan plus the Nairn Trademark on the products you buy plus Expert Installation—for Lasting Satisfaction.*

CONGOLEUM-NAIRN INC.  
KEARNY, N. J.



The formula  
for enduring beauty  
and service  
in interiors . . .





# NAIRN

Reg. U. S. Pat. Off.

## LINOLEUM



THE NEW BETTER-THAN-EVER

*Gar Wood*

# TEMPERED-AIRE

OIL-FIRED HOME HEATING UNITS



SILENT  
EFFICIENT  
COMPLETELY  
AUTOMATIC



Gar Wood

# THE NEW GAR WOOD TEMPERED-AIRE

*is beautifully styled · more compact*

The amazing results obtained by the use of the Gar Wood Tempered-Aire patented principle permits the use of small, compact cabinets. These attractive cabinets fit harmoniously into any basement layout including utility, hobby, game or children's playrooms. They become "part of the layout" regardless of where they are placed.



**BE SURE YOUR  
HEATING UNIT HAS  
THESE IMPORTANT FEATURES**

BE SURE the unit contains an economizer having sufficient heating surface and narrow tubes, for close contact of gas and air, with the economizer located at the bottom in the path of the cold return air from the blower.

BE SURE the burner is an integral part of the unit, that it is coordinated with its firebox combustion chamber, and that it has a windbox for stabilized combustion under varying draft conditions.

BE SURE you get a flash-type steam humidifier. The Tempered-Aire humidifier provides moisture quickly after the burner starts, thereby giving adequate humidity with the new heat accelerated thermostats.

BE SURE the unit is the downdraft type with the firebox outlet at the bottom to trap the heat and prevent stand-by losses.

REMEMBER . . . Only Gar Wood Manufactures the Tempered-Aire Heating Unit!



*Gar Wood*

*Gar Wood*

# TEMPERED-AIRE

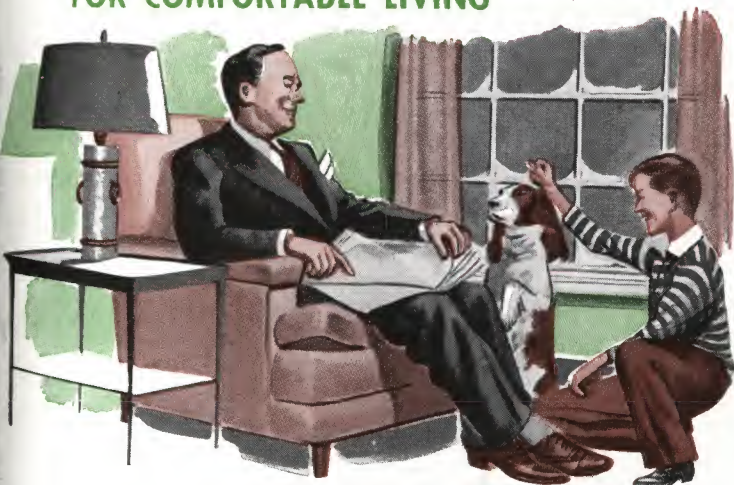
*an engineering achievement  
in low cost comfort*

## IN A CLASS BY ITSELF!



There are certain facts about Tempered-Aire that lift it "head and shoulders" above the average heating unit. (1) Gar Wood developed the original furnace-burner unit, and today Gar Wood engineering skill is based on the knowledge acquired by more than 15 years of experience. (2) The basic principles of Tempered-Aire are different from any other heating unit on the market. The design is protected by a U.S. patent. (3) Tempered-Aire is a complete, highly engineered heating unit . . . each part designed to work in complete harmony with other parts.

## FOR COMFORTABLE LIVING



Bitter cold or just raw, chilly weather never disturbs those who live in the modern luxury of Gar Wood heated homes. Completely automatic Tempered-Aire keeps every room at an even, comfortable temperature . . . an essential factor in healthful protection for you and your family. The scientific, forced circulation of clean humidified warm air prevents hot or cold spots. Even when the mercury takes a nose dive, Gar Wood Tempered-Aire automatically provides comfort that everyone appreciates.

## IF YOU CARE ABOUT EXPENSES



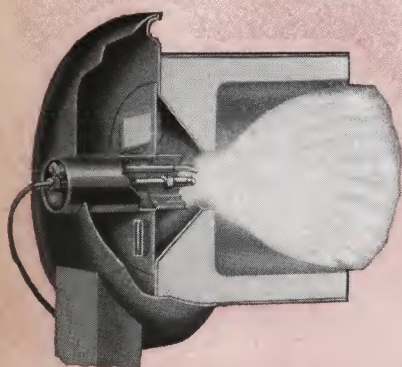
Although expense may be of secondary importance, it is a factor to be considered. Previous Gar Wood Heating Units have proved to be most economical . . . in fact actual surveys showed that Tempered-Aire owners got excellent heating performance on fuel consumption that was as much as 50% below the average for the community. With the new improvements, the latest Tempered-Aire models have been found to be even more economical to operate and more efficient than ever. This is proved by laboratory tests.



*Cpar Wood*

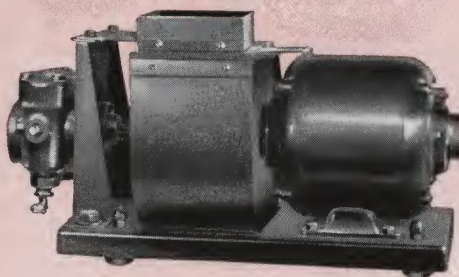
# *Cpar Wood* TEMPERED-AIRE IS

CAREFULLY ENGINEERED



## COMBUSTION CHAMBER FIRING UNIT

The burner and fire bowl combustion chamber are built as one unit. The end of the fire bowl forms a windbox containing air for combustion at sufficient pressure to offset the effect of draft variations. Air from the windbox passes through metering chutes, set at an angle to cause rotation. Oil and air rotate and intermingle in a definitely controlled conical spray.



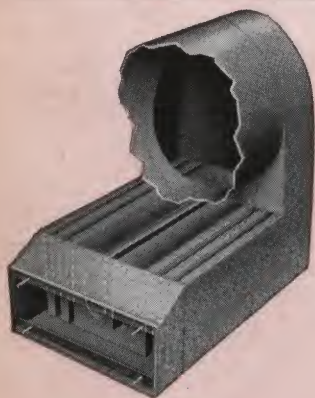
## THE POWER UNIT

The power unit supplies air under pressure to the burner windbox and also maintains a definite controlled oil pressure in the burner fuel nozzle. This assures a perfect mixture of oil and air. All parts are die-formed and welded into a single rigid unit. The entire assembly is rubber-mounted for silent operation and can easily be removed should servicing be required.



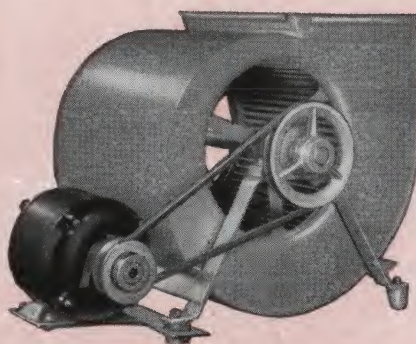
## FIREBOX-ECONOMIZER UNIT

The firebox and the economizer form one composite unit. The tear-drop shape of this unit removes the peak from the high temperature zone and permits the air sweeping up the furnace sides to follow clear to the top thereby absorbing a maximum of heat. The elimination of hot spots plus the exceptionally sturdy construction assures a long life of trouble-free performance.



## THE ECONOMIZER

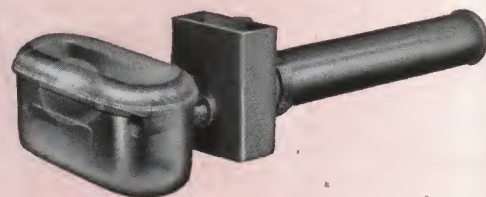
The combustion chamber has its outlet at the bottom through which the hot gases pass down into the economizer. Here the gases divide into long thin slices within the economizer tubes. Each tube is swept at high velocity by cold return air from the blower. The rapidly flowing cold air absorbs a maximum of heat from the economizer surfaces before it contacts the hotter firebox.



## SILENT, EFFICIENT AIR BLOWER

Designed to deliver a generous quantity of air against the friction of duct systems found in actual practice with the motor drawing a minimum of wattage. Note the features:

1. Rubber mounted for quiet operation.
2. Shaft mounted on self-aligning ball bearings set in rubber pillow blocks.
3. Belt tension automatically regulated by weight of motor.
4. Large lightweight blower wheel operating at slow speeds for quietness, economy.
5. Long-hour-duty motor. Built-in overload protection.
6. Adjustable pulley to permit exact setting of blower speed.
7. Discharge outlet connected through canvas connector to prevent telegraphing of sound.



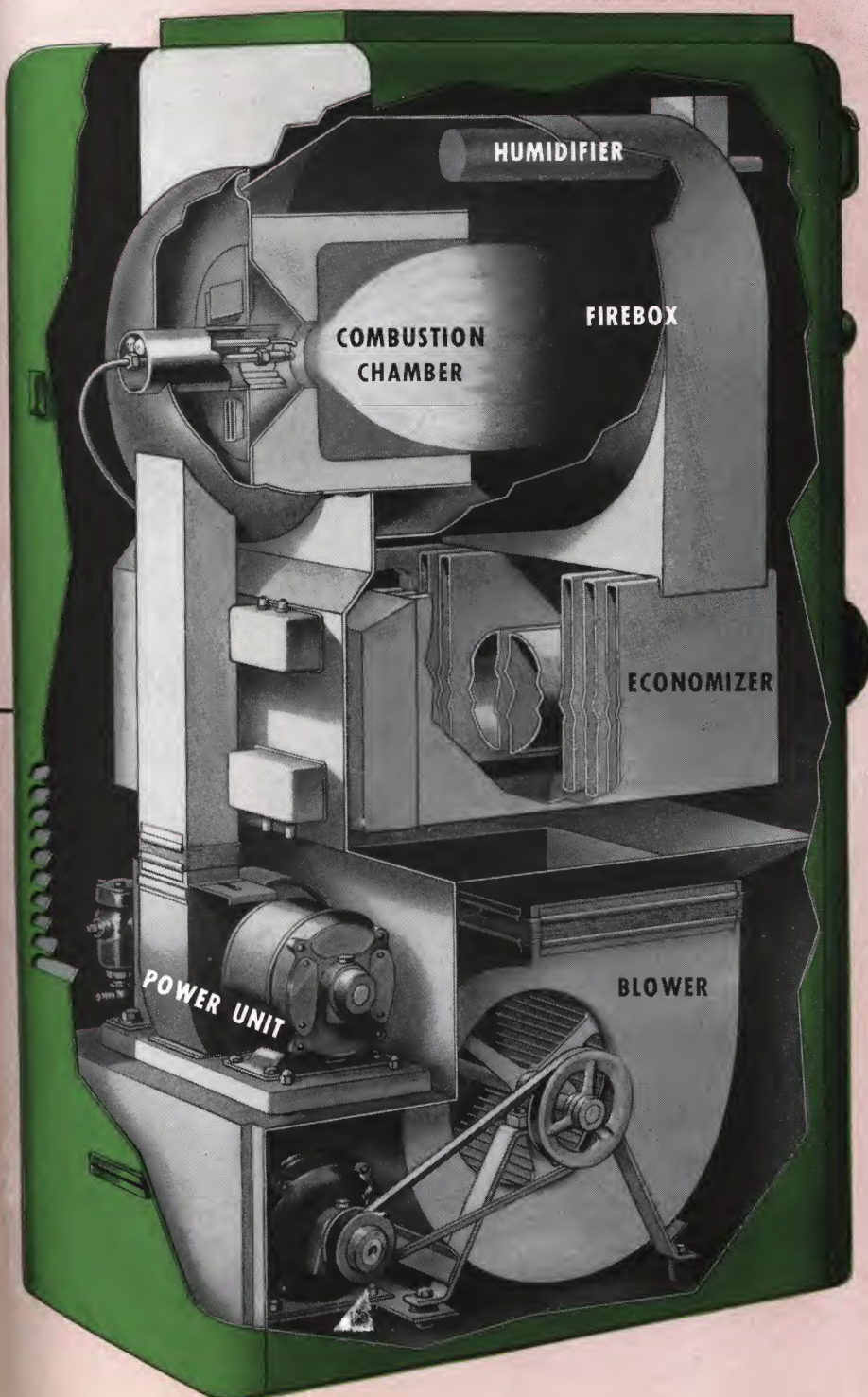
## FLASH HUMIDIFIER

A miniature flash steam boiler within the furnace firebox goes into action when the burner starts. This type overcomes the shortcomings of the slow heating, evaporating pan-type of humidifier. Adequate humidity is delivered into the house under the difficult conditions imposed by the short firing cycles resulting from the use of modern, heat accelerated thermostats.



# A *Complete* HEATING UNIT

TO PROVIDE MODERN HEATING AT ITS BEST



The fact that Tempered-Aire is a *complete* unit is of vital importance to you as a home owner. It means that **EVERY STEP** in the process of changing cold air into comfortable, clean warm air has been carefully engineered by experts with years and years of experience. Each part that goes into the making of the complete Tempered-Aire Heating Unit has been designed to perform its particular job in the most efficient manner and to function in perfect coordination with all related parts. This is your assurance of dependable, balanced heating performance, and here is an important fact to remember . . . Gar Wood was the first to design and build an integral furnace-burner unit, and today **GAR WOOD BUILDS THE COMPLETE HEATING UNIT!**

The principles of Tempered-Aire differ from those of any other heating unit. The reason for this dates back to the time when Gar Wood developed the first furnace-burner unit. After exhaustive research and effort, a complete, coordinated heating unit was perfected that was not the easiest or most inexpensive to manufacture, but it did incorporate every desired quality skillfully engineered to attain the highest level of performance. Here are the outstanding features: (1) Application of the **COUNTER FLOW** principle . . . the most efficient means of achieving heating economy. (2) **UNIT-DESIGNED** oil burner and cylindrical fire bowl. (3) Economizer made of **NARROW FLAT TUBES** located beneath the firebox. (4) Generous amount of **HEATING SURFACES** for longer life, more effective heat transfer and unusual economy of operation.

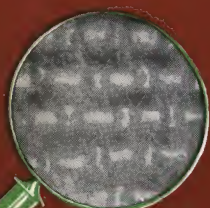
*Standard vertical models employ throw-away type filters which may be placed on either side of cabinet depending on duct work requirements. Bottom inlet available on special order.*



*Gar Wood*

*The most effective  
air filtering device*

MICRO-PHOTOGRAPH  
OF GAR WOOD  
CLOTH FILTER.



BEFORE



AFTER



*Gar Wood*

DE LUXE

TEMPERED-AIRE

*with washable  
REMOVABLE cloth filters*





# *Every breath of air in your house*

## **PASSES THROUGH WASHABLE CLOTH FILTERS**

### *every 15 minutes*

Smoke and soot from factories and homes and trains—dust blown in from streets and alleys—rising dust from sweeping and cleaning in the home—impurities from thousands of different sources constantly pollute the air of cities and tax the health of children and adults alike.

It is impossible to prevent these germ-laden particles from getting into the home. But it is possible to capture them and keep them from doing harm.

That is the purpose of Gar Wood Air Filters, through which every breath of air in your house must pass every ten or fifteen minutes. Think of it! If every room in your house were filled with dusty air, within a few minutes every bit of dust in suspension would be filtered out and the air would be clear and clean.

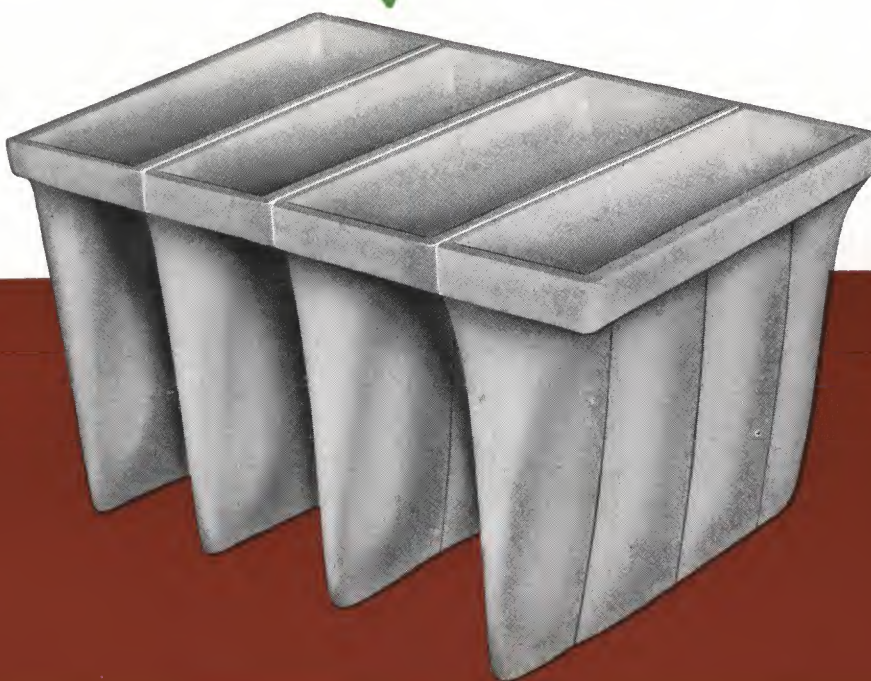
These Air Filters are located in a special filter cabinet, permanently attached to the furnace casing so as to form an integral assembly with

it. The discharge from the filter cabinet communicates with the blower intake so that all the air must pass through the filters before circulating again. Even if several people are smoking or an unusual amount of dust is being raised in the house, the air is cleaned before hangings are soiled or lungs filled with impurities.

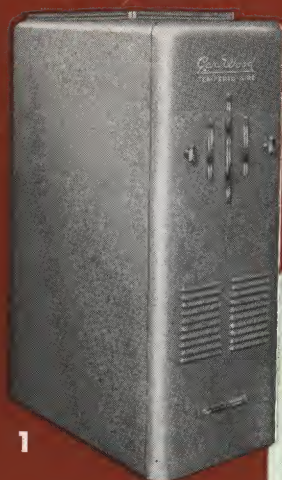
These removable, washable Air Filters are an exclusive Gar Wood development. They consist of a series of bags similar to vacuum cleaner sacks. They are made of special woven fabric and have a tremendous filtering area. Several times a year these collector screens may be lifted out and cleaned in the washing machine.

They can be removed and put back in a few minutes by lifting and replacing the retaining frames. Gar Wood Air Filters are the most effective type and overcome the objections that owners of air conditioning systems have raised to other types of filters.

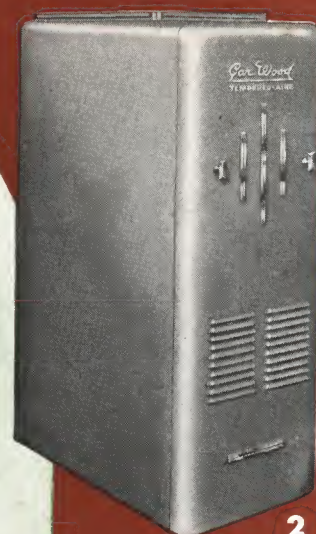
*These washable, removable Air Filters are exclusive with Gar Wood DE LUXE TEMPERED-AIRE Heating Units.*







1



2



3

# Gar Wood TEMPERED-AIRE

*a size for every home*

(1) Model 85—for SMALL homes

(2) Model 135—for LARGER homes

(3) Model 350—for VERY LARGE homes

## OIL-FIRED TEMPERED-AIRE RATINGS AND DIMENSIONS

Model	85	100	135	150	225	350
Assembly Type	Vertical	Vertical	Vertical	Horizontal	Horizontal	Horizontal
BTU 1 Hour at Bonnet	85,000	100,000	135,000	150,000	225,000	350,000
BTU 1 Hour at Registers	68,000	80,000	110,000	120,000	180,000	280,000
*Air Delivery CFM	850	1,000	1,350	1,500	2,250	3,500
Blower Wheel, Inches	12 x 12	12 x 12	14 x 14	16 x 16	20 x 20	20 x 20
Blower Motor H.P.	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	1
Overall Length, Inches	35	42 $\frac{1}{2}$	50	83	89	131
†Overall Width, Inches	22	24 $\frac{1}{4}$	26 $\frac{1}{2}$	32	36 $\frac{5}{8}$	45
Overall Height, Inches	58 $\frac{1}{2}$	58 $\frac{1}{2}$	64	54	57	65
Supply Opening, Inches	25 x 18	32 $\frac{1}{2}$ x 20 $\frac{1}{4}$	40 x 22 $\frac{1}{2}$	36 $\frac{1}{2}$ x 16 $\frac{3}{4}$	36 $\frac{3}{4}$ x 16 $\frac{3}{4}$	65 x 21 $\frac{1}{4}$
Return Opening, Inches	20 x 25	20 x 25	32 x 25	32 $\frac{1}{2}$ x 16 $\frac{3}{4}$	36 x 16 $\frac{3}{4}$	47 $\frac{1}{2}$ x 21 $\frac{1}{4}$
††Stack Connection, Inches	6"	7"	8"	8"	9"	2-10
Recommended Chimney Size	8" x 12" x 30'	8" x 12" x 30'	8" x 12" x 30'	8" x 12" x 30'	12" x 12" x 35'	12" x 16" x 40'
Shipping Weight, Lbs.	600	700	800	1,000	1,200	1,800

\*Ratings based on 160° bonnet temperature and 68° return temperature. Greater air deliveries with correspondingly lower bonnet temperatures may be had by the use of larger blower motors.

†DeLuxe vertical models have double the width of standard models due to filter cabinet.

††On Model 350 connect both stack outlets to chimney.  
All horizontal models have filter cabinet at rear.

# GAR WOOD INDUSTRIES, INC.

## HEATING DIVISION 7924 RIOPELLE STREET, DETROIT 11, MICHIGAN

*There are Gar Wood Dealers in most cities. If you do not locate your dealer readily, write Gar Wood Industries, Inc., Detroit 11, Mich. for information.*





29

"*Welcome*" says  
GOOD HARDWARE



*Make sure NOW that you get Good Hardware...*



**Doors Swing Smoothly**... and silently, when supported by three staunch hinges of solid brass or bronze. Why three hinges? To prevent sagging, sticking and warping of doors. Why brass or bronze? To add beauty and to prevent ugly rust stains on woodwork. To last and serve you well for years and years.

When the door swings open on your new house, will it swing open on the years of welcoming charm and friendliness that make it a HOME? Or will it swing open into the years of petty annoyances that poor-quality builders' hardware will inevitably bring? Hardware goes on the house last, but if you're wise you'll not *select* it last, but as soon as possible. For *good hardware* means so much...

Good hardware means *protection*. You can't afford to deny your family the security which good, substantial hardware affords.

Good hardware means *economy*. The difference between good and cheap hardware is only a few cents a week over the usual 20-year

amortization period for an average home. Cheap hardware actually costs *more* in repairs, replacements, extra depreciation—to say nothing of annoyance, insecurity and run-down appearance.

Good hardware means *beauty*, for it brings compliments, it "makes the house" the way the right accessories "make" a woman's ensemble. That's important to *you*... who want your new home to be perfect... without any not-right "little" things to spoil its loveliness!

You can see what a handsome, solid brass lockset will do for your front door! "Here's a well-built house," it says immediately! Be sure yours has a *cylinder* lock! You should



# The "Finishing Touch" that means so much!



have one on every outside door for protection against prowlers. And you can have *one* key that will open all these doors—including the garage. What a convenience!

All outside doors need *screen* doors as well. Remember they'll be out in rain and wind, so hardware should be of solid brass or bronze. A door-closer will save wear on any screen door, and your nerves, by preventing banging.

Consider a Dutch door for the rear of the hall. Open the top half in summer and let in delightful garden breezes. A door like this looks well when trimmed with "strap" hinges with thumb latch and quadrant to match. It's an outside door—so be sure to use a *cylinder* lock!

**Downstairs Powder Room.** Be it ever so small, it will be appreciated by guests and family alike! Equip with plenty of brass or bronze hat and coat hooks to make it extra useful.

**"Tuck-Away" Closet.** Insist on one—off the hall or under the stairs! So handy. Insist, too, on good hardware to keep closet doors functioning smoothly. Use sturdy, last-a-lifetime coat rods and garment hooks.



# How to be sure you're getting Good Hardware



**Double Folding Doors** between living and dining room give you the effect, and use, of one big room; or the privacy of two, as occasion demands. Four strong hinges to each fold will keep them functioning smoothly.

**Bookshelves and Cupboards.** Whoever had too many cupboards for games, magazines, odds and ends galore? Cupboard doors should be hung with *enough* good hinges, well-designed catches and pulls, to work smoothly.

## Remember these few all-important points

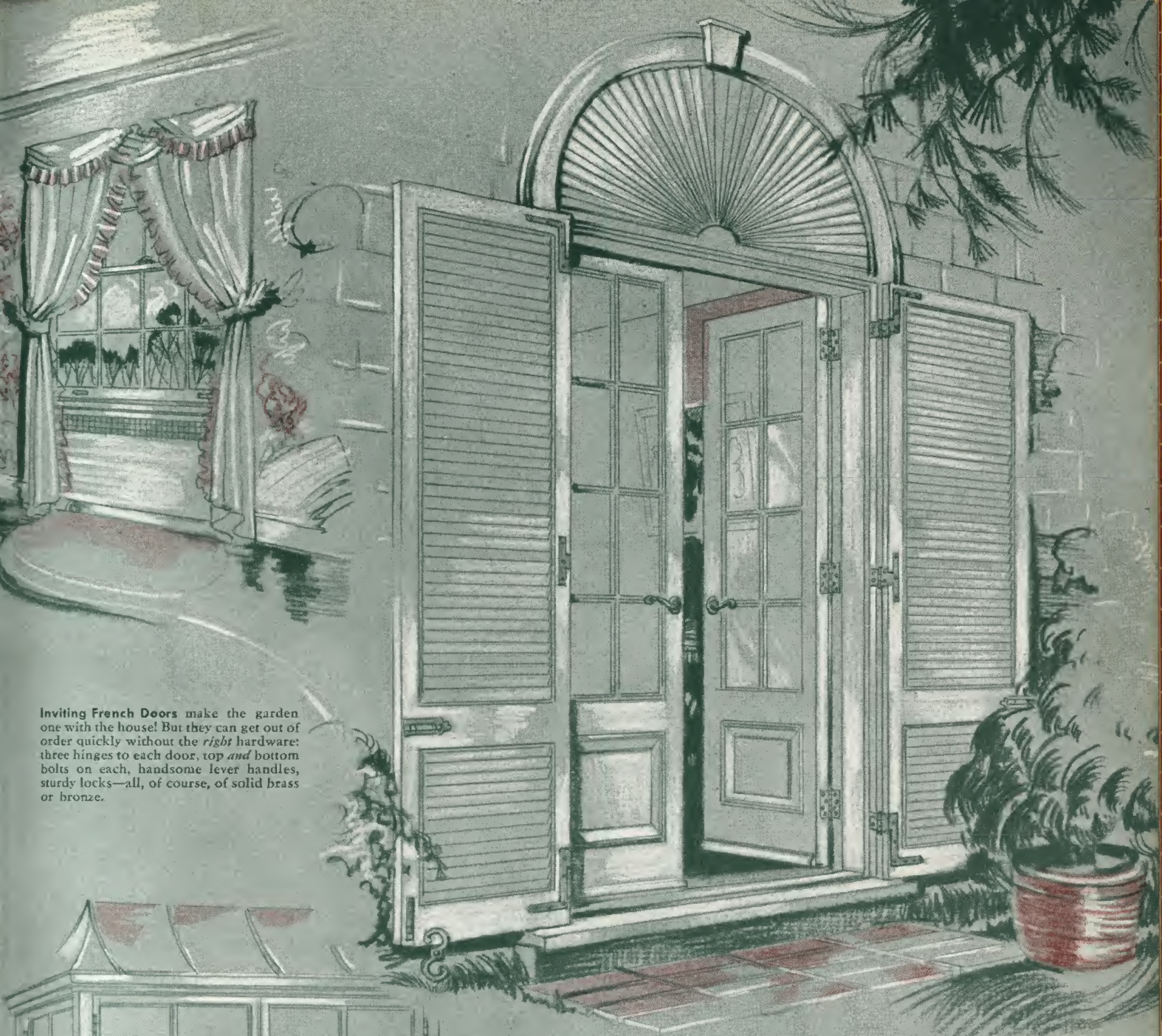
Good Builders' Hardware is made of either *solid* brass or bronze. Hardware can be, and is, made also of steel, often plated to look very much like brass or bronze.

*Solid* brass or bronze is ideal—the best that can be had—especially for all purposes where the hardware comes in contact with the weather.

**Caution!** If you want your home to have real brass or bronze hardware, ask for *solid* brass or bronze—otherwise you may get steel hardware with just a brass or bronze plated finish.

In any case, be sure to ask your architect, contractor and hardware dealer to help you get *good hardware*. They are experts, know the difference and will advise you wisely.





Inviting French Doors make the garden one with the house! But they can get out of order quickly without the *right* hardware: three hinges to each door, top *and* bottom bolts on each, handsome lever handles, sturdy locks—all, of course, of solid brass or bronze.



On Casement Windows use a "snugger"—an extra catch that will hold it fitting tight. If windows are over 5 ft. high use three non-removable hinges and two casement fasteners.

## *How to have Windows and Shutters that always work!*

Windows may be of any kind—but they *all* must stand up to weather! For their sake, and the sake of what's in the rooms they protect, see that their hardware (locks, fasteners, hinges, adjusters, and so forth), depending on the type and style of the window itself, are all of *rustproof* hardware... *solid* brass or bronze! And, don't forget, that applies equally to the hardware on French doors. Screens, shutters, and storm sash should be equipped with *rustproofed* steel hardware.





*What a gracious room . . .*

**And What Beautiful Hardware!** Hardware can bespeak the hospitality of your home as surely as your own welcome. How could any guest enter this dining room without noticing the gleaming brass hinges and finely designed brass knobs. Casement windows swing smoothly, lock securely, hold fast at any angle you wish; cupboard doors click shut, open easily, look their best . . . thanks to the beauty and service of good hardware!



# Good Hardware brings Comfort To Study or Den

For Dad Only! Every man needs a private closet of his own—a cache for his rods, guns, golf bag and what have you. For *security*, equip with three non-removable hinges and cylinder lock!



A Security Closet is the perfect way to protect your furs, evening gowns, fine lingerie, etc. So useful if equipped with plenty of storage drawers. Protection is assured by non-removable hinges and cylinder lock.



## *“Built-Ins” add Usefulness And Charm*


Just look at the idea for “built-ins” on this page! Every one of them is useful, attractive—adds immeasurably to the joy of living in a “good-hardware” home.

Bookshelves will fit books of any size if they’re adjustable. Your building hardware dealer can show you simple and economical fixtures for this purpose.

And why not a built-in desk? You can have it designed to fit your needs to a T. Equip with handsome brass drawer pulls for years and years of trouble-free service.



# *For permanent beauty in the Bathroom insist on Lasting Hardware!*



Want your bathroom hardware to go on and on, always gleaming brightly—in spite of steaming atmosphere? Then insist on chromium-finished brass or bronze hardware throughout the bathroom. This modern finish is easily cleaned, never loses its original sheen and will far outlast any other.

Your bathroom won't suffer from the usual complaint—not enough storage space! Not if you build in plenty of cabinets and drawers for towels, medicines, soiled linens and so on. How trim they'll look with their glistening chromium hinges, latches and pulls!

Note: To prevent children, or others, getting "locked in" the bathroom by the inside thumb-turn, insist on a "square" Emergency Key which will unlock the door from the outside.

Every Woman's Dream . . . enough closets! Copy this idea in your hall and end your clothes storage problem forever. Note how much good hardware adds to beauty and service.



# *How to make a Bedroom blissful*



## *A place for Everything*

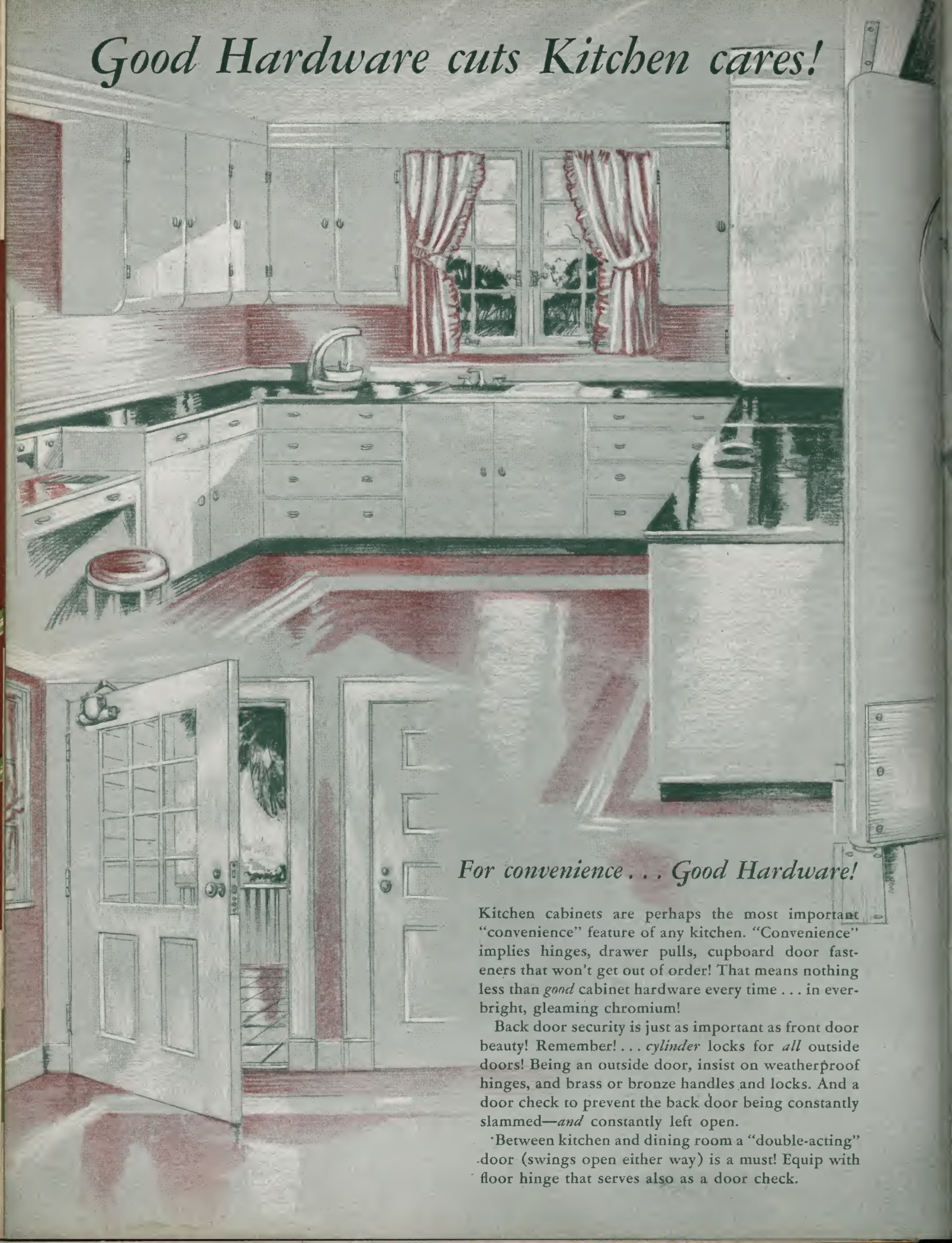
Closets, closets, closets! No woman ever had too many! Smooth working drawers and adequate clothes hanging space, when equipped with long-lasting hardware, make such a difference in living comfort. See that all pulls, hinges, garment rods and coat hangers are of good hardware!

Bedroom, and some closet doors, can be "trimmed" with knobs and latches only, if you wish—thus saving the cost of key locks where not needed. Another practical hardware economy can be realized on closet doors, many of which need knobs on the room side only.

**Your Own Dressing Room!** Costs so little! Means so much in convenience! Choose substantial hardware to match the style or period of your home. You'll be so pleased with the results!



# Good Hardware cuts Kitchen cares!



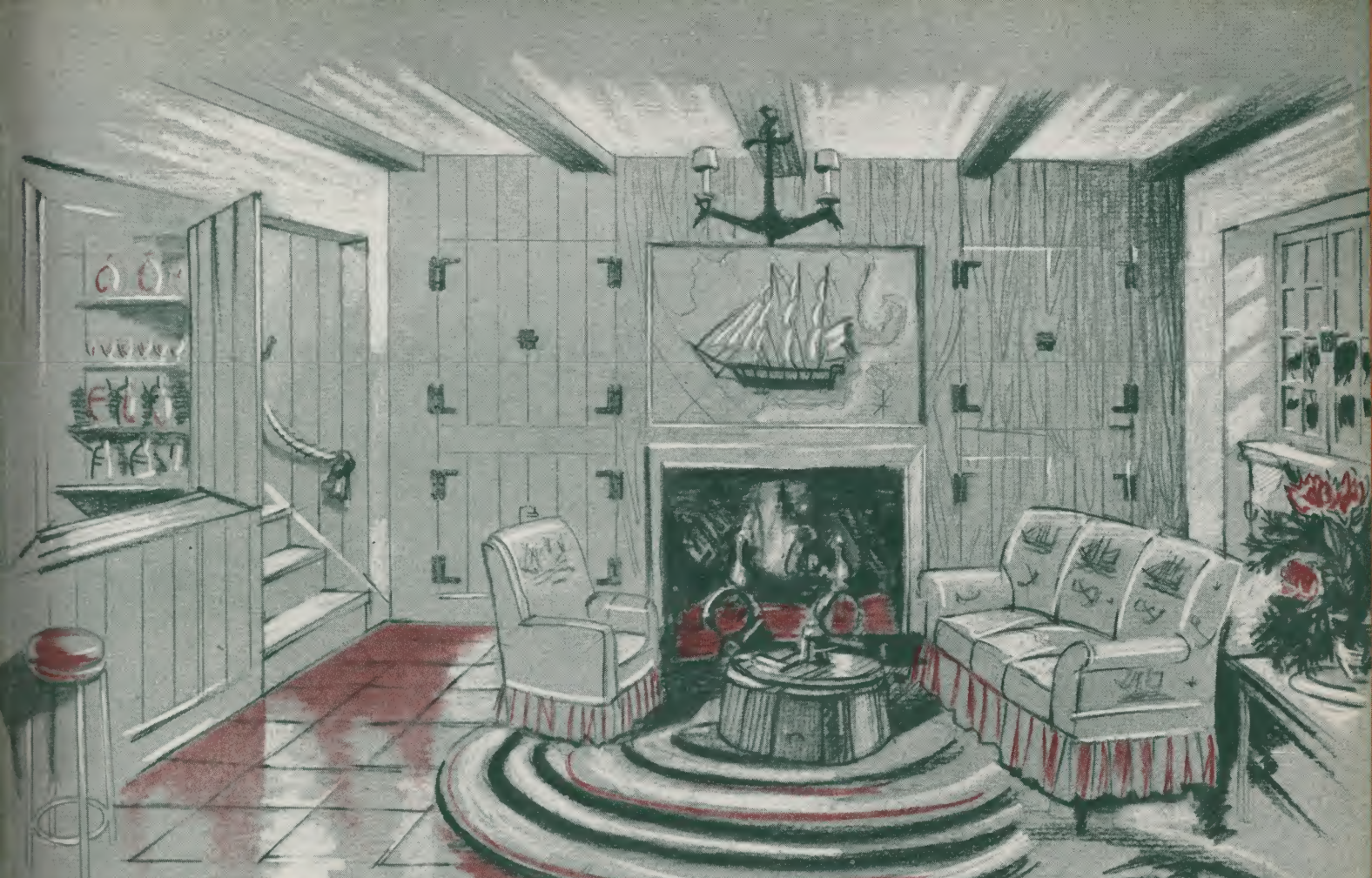
## For convenience . . . Good Hardware!

Kitchen cabinets are perhaps the most important "convenience" feature of any kitchen. "Convenience" implies hinges, drawer pulls, cupboard door fasteners that won't get out of order! That means nothing less than *good* cabinet hardware every time . . . in ever-bright, gleaming chromium!

Back door security is just as important as front door beauty! Remember! . . . *cylinder* locks for *all* outside doors! Being an outside door, insist on weatherproof hinges, and brass or bronze handles and locks. And a door check to prevent the back door being constantly slammed—and constantly left open.

Between kitchen and dining room a "double-acting" door (swings open either way) is a must! Equip with floor hinge that serves also as a door check.





## Forged Iron Hardware adds Charm

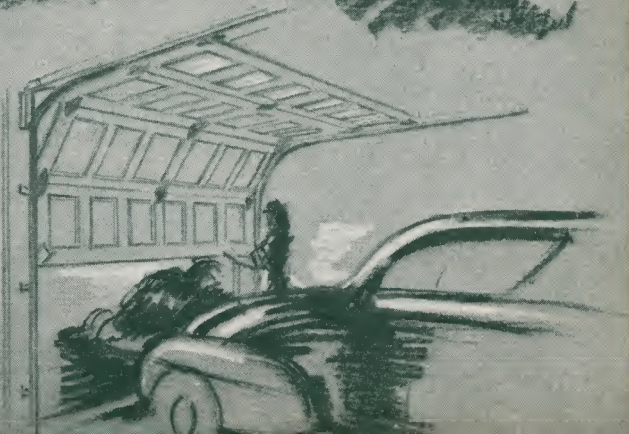
All homes call for hardware that "belongs"—that is livable, useful, and in "character" with the period or style of the home or room. Note how much the attractive forged iron "H and L" hinges do for the playroom above. The doors, cabinets, closets, have been trimmed with this practical hardware pattern of Colonial days.



## Garage Hardware must be Good!

Garage doors that won't open easily—that sag, warp, get out of line—are a nuisance! Poor hardware is the cause! With *good* hardware you get lasting efficiency, peace of mind, and security! And with tastefully chosen strap hinges you can have the handsomest garage in your neighborhood!

Whatever type of door you choose, upward-acting or swinging, be sure you have a *cylinder* lock for security! Remember—you won't need to carry an *extra* key—just *one* will open and all outside doors of your home!







## *You can count on the good advice of these men when building your home*

Building a home is the most important investment of a lifetime. If you've never been through the experience before (and few families have) give every item careful thought! Go slow... look and learn before you leap! Do without rather than accept second-rate building products. They cost too much in the end! Above all, seek *experienced advice!*

Your *Architect*... your *Contractor*  
... your *Building Hardware Dealer*

make up the team that will help you to be certain of getting the kind of home you want—soundly built of solid, lasting materials—*provided* you tell them of your desires!

Be sure to consult all three *now* about the hardware for your home! And be sure to *select and order* your hardware in the beginning—even before you start building. Why? Because, if left till last, hardware can take such a beating from the tail end

of a budget that you will both regret and have to pay for your mistake years on end!

By ordering your hardware *early*, you can choose carefully just the style and pattern you want, you can avoid costly delays, disappointments, and the eventual expense that always accompany haste and "cuts." So plan *now* to give your home "*good hardware... the finishing touch that means so much.*"

*The information and counsel about Good Hardware contained in this catalog have been made available to you by the following leading builders' hardware manufacturers...*

P. & F. Corbin  
New Britain, Conn.

McKinney Manufacturing Company  
Pittsburgh, Pa.

Russell & Erwin Manufacturing Co.  
New Britain, Conn.

Schlage Lock Company  
San Francisco, Calif.

Lockwood Hardware Mfg. Co.  
Fitchburg, Mass.

Reading Hardware Corporation  
Reading, Pa.

Sargent & Company  
New Haven, Conn.

The Stanley Works  
New Britain, Conn.



*The* **PROVED**  
**HEATILATOR**  
*Fireplace*



CIRCULATES HEAT TO ALL PARTS OF THE ROOM

**THE FIREPLACE THAT WILL NOT SMOKE**



# *The* **HEATILATOR** *Fireplace*

## **A NEW TYPE FIREPLACE**

***That Warms Every Corner of the Room... and Even Adjoining Rooms***

**N**OW and then during the centuries since the first crude fireplace was built, a few improvements have been made in fireplace design and construction. Yet these have changed the fireplace but little and, until recent years, the fireplace has remained practically what it was back in the stone age. It warmed only a small space in front of the fire. It wasted most of its heat up the chimney. And more than half of the fireplaces built smoked so badly that they couldn't be used.

Recently a new and improved type of fireplace has been developed that works on an entirely new principle. While it eliminates the faults of the old-time fireplace, it preserves all of the well-loved charm and beauty, adding to them new comfort and efficiency that are strictly modern. It is called the Heatilator Fireplace—because it is built around the scientifically designed Heatilator unit.



Charming accent for a white room — red brick and "Down East" mantel with grilles in ends.

### **CIRCULATES HEAT**

By using the principle of the warm air furnace, the Heatilator adds a new circulated heat to the directly reflected heat of the ordinary fireplace. This extra warmth was formerly wasted up the chimney and in unnecessary heating of the masonry. Now it extends the zone of comfort to every nook and corner of the room and even adjoining rooms. There are no cold drafts—no longer will your back freeze while your face parches.

The double-walled Heatilator firebox forms a heating chamber at the sides and back of the fire. Cool air from floor level enters this chamber where it is quickly heated by contact with the hot firebox walls. It then rises naturally, returning to the room through grilled openings in the wall. Thus every part of the room is heated uniformly and comfortably. Where desired, this heat can be conducted through the masonry to adjacent or upstairs rooms as well.

### **CUTS HEATING COSTS**

Count the weeks in spring and fall when some heat is needed—but when it is most difficult and expensive to run the central heating plant. This is the time when a Heatilator Fireplace saves you money. A little fire in the morning and again in the evening—with heat circulation throughout the house—brings new comfort and health protection. Any fuel that is satisfactory for the open fireplace can be used.

In most southern homes the Heatilator Fireplace is the only heating equipment needed for complete comfort during the cooler seasons. Thus it saves the cost of expensive heating plants that are used but a short time each year.

### **WILL NOT SMOKE**

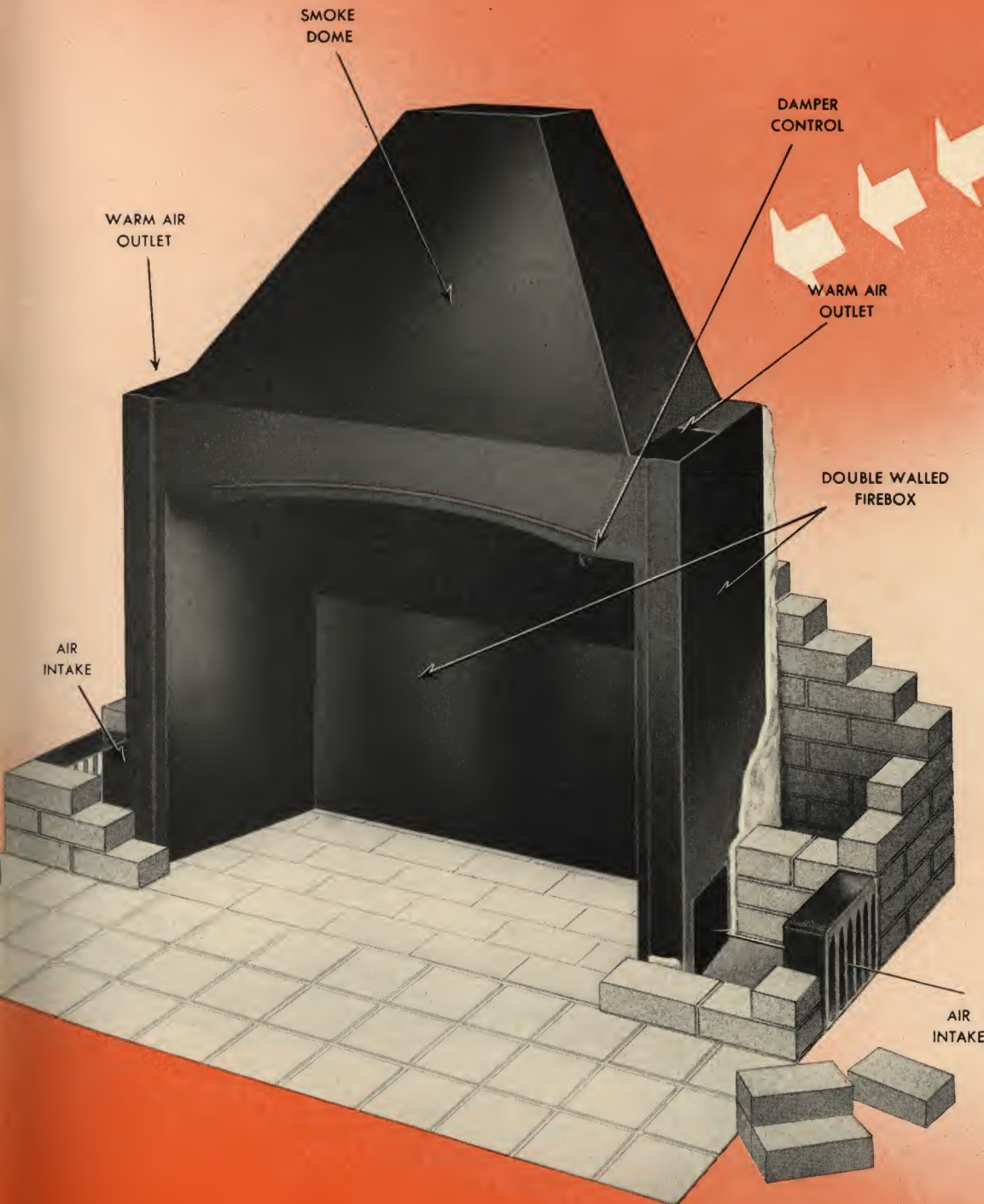
The success of a fireplace has long depended upon the skill of the builder—plus a certain amount of luck. That is why over half of the fireplaces in existence cannot be used because they smoke. The Heatilator has eliminated this risk because engineers at the factory have made it scientifically correct. Firebox, throat and flue openings are in proper proportion. The damper, down draft shelf and smoke dome are built into the unit and correctly located. In fact, all the designing is done for the builder—you can know in advance that your fireplace will not disappoint you.



# WHAT THE HEATILATOR FIREPLACE UNIT IS

**T**HE Heatilator is a complete fireplace from hearth to flue, requiring only the decorative masonry to complete the installation. In a single compact unit it includes a scientifically designed and proportioned firebox, throat, damper, down-draft shelf and smoke dome. By providing a standard form for the masonry it eliminates all guesswork and the risk of failure that is always present in ordinary construction.

In addition, the double-walled firebox of the Heatilator forms a heating chamber around the fire. It is here that cool air from floor level is heated—then circulated, healthfully and evenly, throughout the room—like in a warm air furnace.



**PROVED**  
*All Over  
America*

This method of building a fireplace is not an experiment, not an untried idea. Its merits have been tried and proved over a period of years in thousands of homes and camps, in every climate, all over America. As a result, the Heatilator Fireplace has won the enthusiastic approval of owners everywhere — is recognized by architects and builders as the first practical step in making fireplaces useful and efficient.



# *The* HEATILATOR *Fireplace*

## A NEW TYPE FIREPLACE

*That Warms Every Corner of the Room... and Even Adjoining Rooms*

### CIRCULATES HEAT

**N**OW and then during the centuries since the first crude fireplace was built, a few improvements have been made in fireplace design and construction. Yet these have changed the fireplace but little and, until recent years, the fireplace has remained practically what it was back in the stone age. It warmed only a small space in front of the fire. It wasted most of its heat up the chimney. And more than half of the fireplaces built smoked so badly that they couldn't be used.

Recently a new and improved type of fireplace has been developed that works on an entirely new principle. While it eliminates the faults of the old-time fireplace, it preserves all of the well-loved charm and beauty, adding to them new comfort and efficiency that are strictly modern. It is called the Heatilator Fireplace—because it is built around the scientifically designed Heatilator unit.

By using the principle of the warm air furnace, the Heatilator adds a new circulated heat to the directly reflected heat of the ordinary fireplace. This extra warmth was formerly wasted up the chimney and in unnecessary heating of the masonry. Now it extends the zone of comfort to every nook and corner of the room and even adjoining rooms. There are no cold drafts—no longer will your back freeze while your face parches.

The double-walled Heatilator firebox forms a heating chamber at the sides and back of the fire. Cool air from floor level enters this chamber where it is quickly heated by contact with the hot firebox walls. It then rises naturally, returning to the room through grilled openings in the wall. Thus every part of the room is heated uniformly and comfortably. Where desired, this heat can be conducted through the masonry to adjacent or upstairs rooms as well.

### CUTS HEATING COSTS

Count the weeks in spring and fall when some heat is needed—but when it is most difficult and expensive to run the central heating plant. This is the time when a Heatilator Fireplace saves you money. A little fire in the morning and again in the evening—with heat circulation throughout the house—brings new comfort and health protection. Any fuel that is satisfactory for the open fireplace can be used.

In most southern homes the Heatilator Fireplace is the only heating equipment needed for complete comfort during the cooler seasons. Thus it saves the cost of expensive heating plants that are used but a short time each year.

### WILL NOT SMOKE

The success of a fireplace has long depended upon the skill of the builder—plus a certain amount of luck. That is why over half of the fireplaces in existence cannot be used because they smoke. The Heatilator has eliminated this risk because engineers at the factory have made it scientifically correct. Firebox, throat and flue openings are in proper proportion. The damper, down draft shelf and smoke dome are built into the unit and correctly located. In fact, all the designing is done for the builder—you can know in advance that your fireplace will not disappoint you.



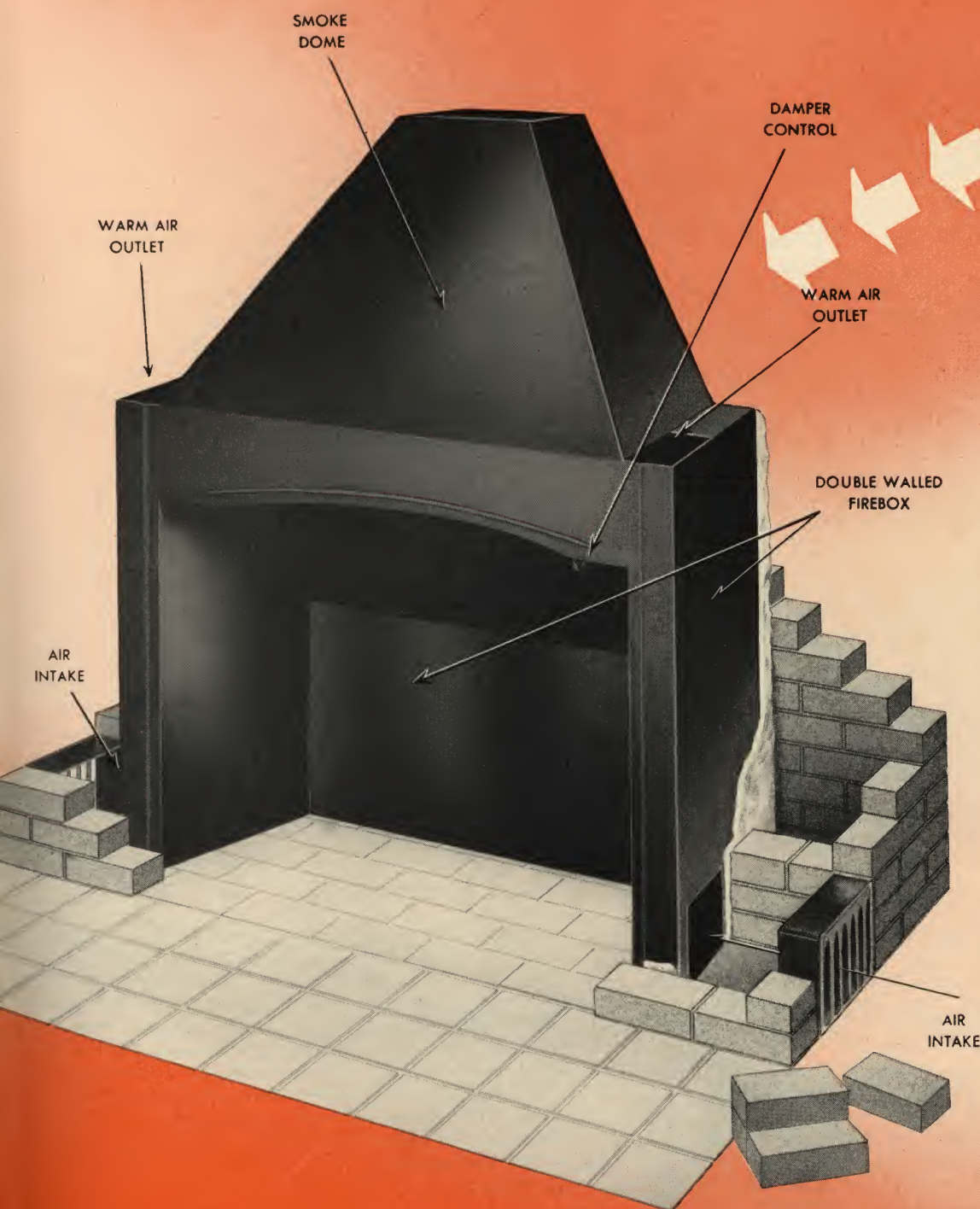
Charming accent for a white room—red brick and "Down East" mantel with grilles in ends.



# WHAT THE HEATILATOR FIREPLACE UNIT IS

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# COSTS BUT LITTLE MORE THAN OLD-FASHIONED FIREPLACE



Brick and wood mantel with warm air outlets in the recessed wall niches.



Arched field stone fireplace in a log cabin—with grilles in the ends.



This plaster mantel with raised hearth blends with the Spanish architecture.

*... You Save*

## ON LABOR AND MATERIALS

Most people would gladly pay much more for the added heating comfort and for the assurance of satisfactory service which the Heatilator provides. However, the completed Heatilator Fireplace actually costs but little more than one of ordinary construction. This is because the unit comes complete from hearth to flue. No firebrick is needed for the back or sides of the firebox. You do not have to pay for a separate damper or smoke dome.

More—the mason saves time and labor when he builds your fireplace around this metal form. Construction is simplified—less masonry is required. When you deduct these savings from the cost of the Heatilator itself, you will find this improved type of construction adding but little to the cost of your fireplace.

*Build*

## ANY STYLE FIREPLACE

The Heatilator is a built-in structural part of the fireplace—not an addition to it. Practically hidden in the masonry, it puts no limit on the architectural style of the mantel or the type of masonry that is used. Thus your fireplace can be Colonial, Georgian, Tudor, Early American or any design desired and can be built of brick, stone, tile or other materials. You can also vary the size and the heating capacity to meet a wide range of needs as shown in the specifications.

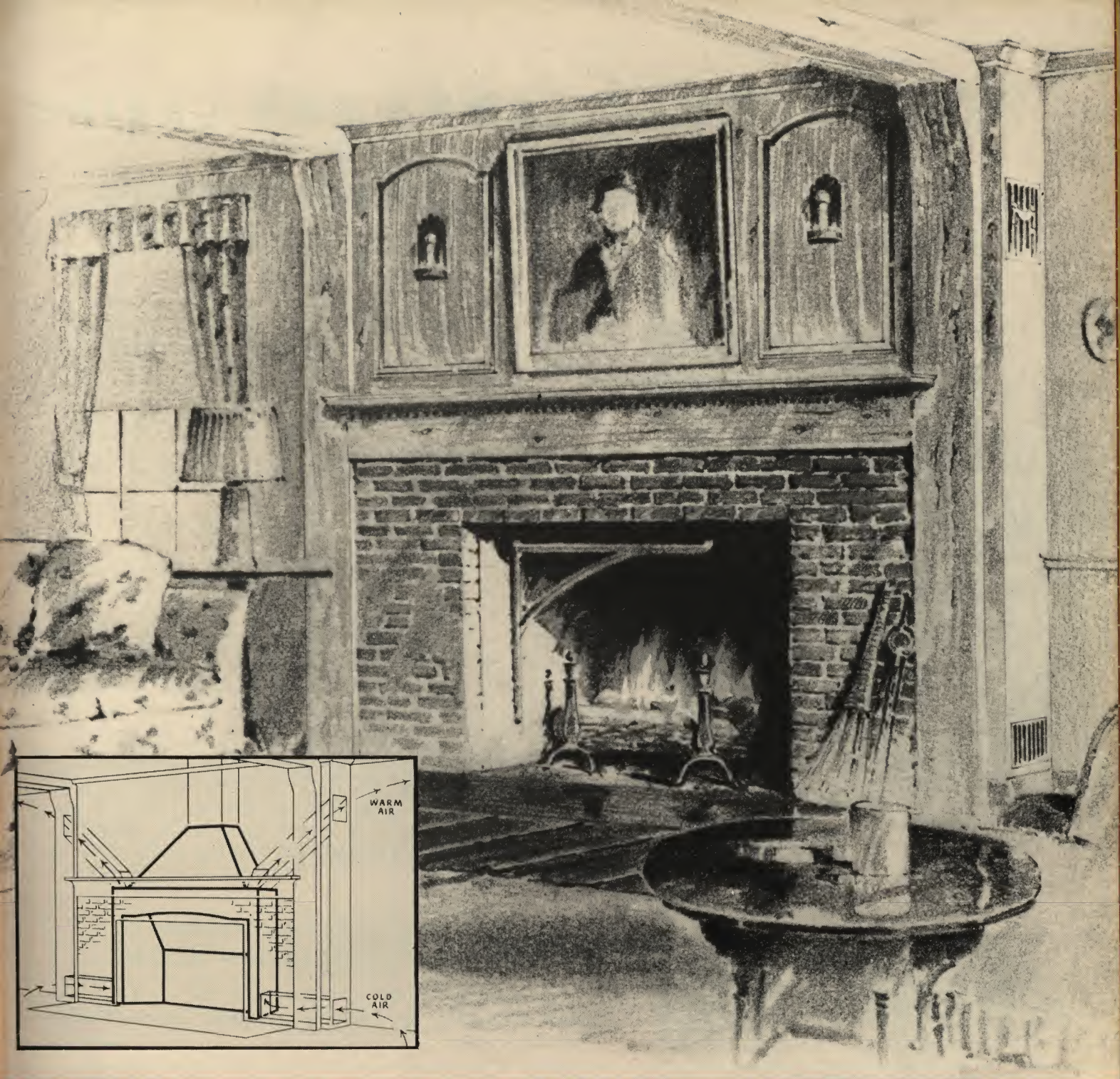
*Grilled Openings*

## BLEND INTO MANTEL

Only the air intake and outlet grilles indicate that your fireplace is built this modern way—and they are easily placed to blend harmoniously into the general design. Where the mantel projects sufficiently these grilles can be located out of sight in the ends of the chimney. If the mantel is flush with the wall, the intakes can be located in the baseboards on either side of the fireplace—with the outlets high above the mantel itself. In fact, the position of the grilles can be adapted to meet practically any requirement as illustrated on the pages of this book.

If your present fireplace cannot be used because it smokes—or the firebox needs relining—ask your mason about rebuilding it around the Heatilator. In most cases the chimney will accommodate the unit without difficulty and the installation can be made easily and quickly.





## *Approved* BY ARCHITECTS AND HEATING ENGINEERS...

When the Heatilator was first put on the market more than 18 years ago, it was immediately accepted by architects, builders and owners as the first real advance in fireplace construction. Since then it has become the standard way to insure a successful fireplace—a method that has been tried and proved in thousands of homes and camps throughout the country. Large scale developers whose homes include the most modern features are standardizing on the Heatilator for every fireplace. Leading architects specify this

improved construction to assure the satisfaction of their clients. Home and camp owners want the extra comfort that the Heatilator provides.

It standardizes correct fireplace construction through the use of a scientifically designed form around which the masonry is built. It saves and utilizes the heat that previously had been wasted up the chimney. It provides a fireplace that is simple, yet contains all of the essential parts of a fireplace—correctly proportioned and built for lifetime service.



# Makes SUMMER CAMPS AND CABINS Usable Weeks Longer...



There is no place where the open fireplace plays a more important part than in a summer camp or cottage. Indoor activity centers around its crackling logs and glowing embers. At the same time it is usually the only source of heat and must provide living comfort on cool days and nights. The inefficiency of the ordinary fireplace limits the enjoyment of camp life to the two or three warm summer months. The Heatilator Fireplace materially extends this time.

## A WISE INVESTMENT

It is no wonder, then, that owners say the Heatilator Fireplace is the wisest investment in camp comfort and enjoyment. Its circulating heat, spreading throughout the room and adjoining rooms, adds weeks to the outdoor season. Now they can open their camps earlier in the spring—and keep them open later in the fall. In fact, many owners find their Heatilator Fireplaces enable them to use their camps on winter week-ends for winter sports.

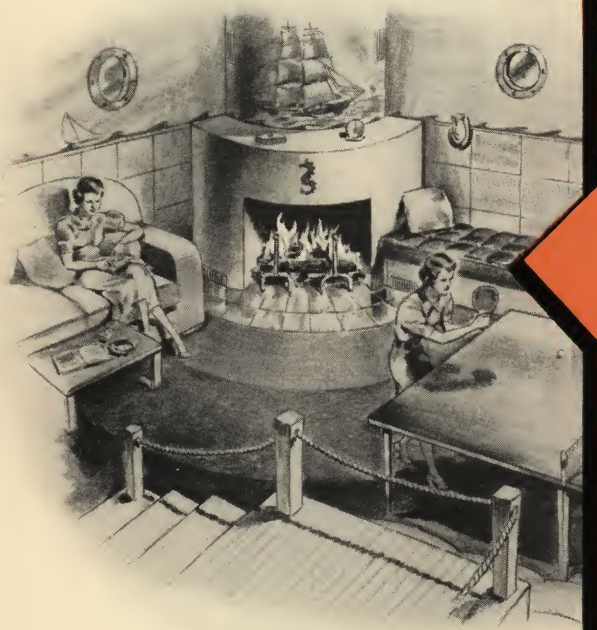
If you are building a cottage at the shore or a cabin in the mountains, you, too, will want the extra comfort that the Heatilator provides—at so little extra cost. Or, if your present fireplace prevents full use of your camp, it can probably be rebuilt around the Heatilator and pay big dividends in increased pleasure.

## Solves the Heating Problem In BASEMENT RECREATION ROOMS

Any architect or heating engineer will tell you that a basement recreation room presents a special and troublesome heating problem. It is difficult to force air from a warm air furnace down to basement level. And where hot water or steam heat is used, the necessary but unsightly pipes and radiators take up valuable ceiling space, mar the beauty of the room, and often prevent the decorative treatment desired.

## HEATS QUICKLY

The Heatilator Fireplace ends all the heating troubles in basement rooms, providing in addition the charm and beauty of an open fire. It greatly improves the decorative effect. And it gives quick heat—circulating warm air thoroughly and uniformly to far corners. The room is made comfortably warm—ready for use—in a relatively short time. You enjoy complete use of the room—and you can make a more pleasing arrangement of the game tables and other furnishings because these do not have to be placed close to the fireplace for warmth.





## Heatilator Fireplace Specifications

The Heatilator is made of the same high grade steel used in the manufacture of the finest steel furnaces. The entire inner shell—including the firebox, downdraft shelf and all surfaces in direct contact with the fire—is heavy  $\frac{3}{16}$ " boiler plate to insure maximum service. The smoke dome, serving as a form for the masonry, is 14 gauge.

Formed of a single piece of  $\frac{3}{16}$ " plate, the Heatilator firebox has no welded joints across the back or lower corners where greatest strength is required. The need for special reinforcing is eliminated. All seams are electrically welded. The damper is positive in action with a simple poker-control that does not require fixtures in the mantel.

### Complete Range of Sizes

CATALOG NUMBER	FINISHED WIDTH	OPENING HEIGHT	FLUE SIZES	FUEL CAPACITY	WEIGHT
24H	23"	24"	8½" x 13"	up to 16"	160 lbs.
28H	27"	25"	8½" x 13"	up to 20"	180 lbs.
34H	33"	26"	8½" x 13"	up to 27"	240 lbs.
39H	37"	28"	13" x 13"	up to 30"	280 lbs.
44H	42"	31"	13" x 13"	up to 33"	390 lbs.
50H	48"	33"	13" x 18"	up to 38"	470 lbs.
62H	60"	36"	13" x 18"	up to 50"	705 lbs.
74H	72"	38½"	20" x 24"	up to 62"	1200 lbs.

### Heating Capacity Ratings

The ratings at the right are based on a forty degree change in temperature which should easily be obtained and maintained in the ordinary type of construction. No account has been taken of the reflected and direct heat from the fire itself. These ratings are moderate in every case and considered safe in ordinary practice. However, they should not alone determine the size Heatilator to be used. Other factors such as relation of fireplace to size of room, space available, etc., should also be considered.

Where more than a forty degree rise in temperature is desired, a larger unit should be installed or forced circulation provided by means of electric fans placed at intake openings. Heating efficiency is increased by burning fuel in a fireplace basket. High, solid back types should not be used.

CATALOG NUMBER	ROOM CAPACITY (Natural Circulation)	ROOM CAPACITY (Forced Circulation)
24H	2250 cu. ft.	3700 cu. ft.
28H	3000 cu. ft.	6000 cu. ft.
34H	3500 cu. ft.	7000 cu. ft.
39H	4200 cu. ft.	8400 cu. ft.
44H	5000 cu. ft.	9500 cu. ft.
50H	5900 cu. ft.	10600 cu. ft.
62H	7000 cu. ft.	12600 cu. ft.
74H	9000 cu. ft.	16200 cu. ft.

Example: A 34H unit rated for 3500 cu. ft. room capacity would be equivalent to recommendation for a room 30x14x8 or total room capacity of 3360 cu. ft.

## OWNERS FROM COAST TO COAST SAY:

### Plenty of Warmth for Cool Season

"I am more than pleased with my Heatilator. It sure sends out the heat and fills the gap in the spring and fall when we need some heat but not as much as a furnace."—J.B.T., Monroe City, Missouri.

### Open Fire Now Enjoyable

"The Heatilator added very little cost to our fireplace for which we have been repaid many times. It is a new and pleasant experience for us to have an open fire to enjoy and to have our rooms evenly and comfortably heated with the same fuel."—C.G.H., Painesville, Ohio.

### Adds Weeks of Use to Cabin

"I have a five room cabin in northern Wisconsin where I spend many weeks in the fall and during the winter months. The only heat is that furnished by the Heatilator unit which has proved satisfactory in every respect."—C.P.S., Appleton, Wisconsin.

### Heats Entire Bungalow

"Our Heatilator has already paid for itself in conservation of fuel. We have a five room California bungalow, and are able to heat the entire house with the fireplace."—W.M.L., San Diego, California.

### A Real Saving in Fuel Costs

"I find that the Heatilator furnishes sufficient heat to take the chill out of the house during fall and spring. This enables me to save from 10% to 20% in the cost of fuel."—J.J.T., Raleigh, North Carolina.

### Ideal for Southern Homes

"I installed a Heatilator Fireplace in my new home. The living room is 15' x 30' and two adjoining bedrooms are each 15' x 15'. I heat these three rooms from the one fireplace."—T.C.A., Decatur, Alabama.



*Before You Build  
Your Fireplace...*



**CHECK  
THESE PROVED  
ADVANTAGES  
OF THE**



# HEATILATOR Fireplace

*Write* TODAY for a free copy of illustrated Heatilator folder. Contains complete specifications, installation data, and other information that will help in planning your fireplace.

- Circulates heat to every corner of the room—and even to adjoining rooms, or up-stairs rooms.
- Insures correct design of the fireplace—thereby eliminating the common faults that cause smoking.
- Cuts heating costs by saving weeks of furnace operation every spring and fall.
- Is the only heating equipment needed in most homes in mild climates.
- Makes camps and cabins usable weeks longer—even for winter week-ends.
- Solves the heating problem in basement recreation rooms.
- Easier to build—puts no limit on mantel design or type of masonry used.
- Adds but little to fireplace cost because of savings in labor and materials.

*Ask your dealer*—Heatilator Fireplaces are sold by leading building supply and lumber dealers everywhere. Your dealer will be glad to arrange for prompt delivery.



HEATILATOR, INC.

1006 E. BRIGHTON AVE.

SYRACUSE 5, N. Y.



# MONCRIEF



ENJOY *"Years Ahead"* HEATING COMFORT *"Today"*



THE HENRY FURNACE COMPANY • MEDINA, OHIO



## ***You Can Enjoy Home Heating Comfort***

Into that well-planned, beautifully-furnished home of yours can be brought all the comforts and convenience that modern air conditioning affords.

Today, you can choose a Moncrief Air Conditioner with the complete assurance that you are getting the finest that money can buy.

A Moncrief Air Conditioner brings into your home—Automatic temperature control . . . constant humidification so necessary in the heating season . . . forced circulation of clean, filtered warm air . . . automatic fuel regulation that maintains an even temperature regardless of outdoor temperature changes.

You also can enjoy the comforts of cooling, circulated air on those sizzling summer days. A cooling (refrigeration) unit can be added to your Moncrief at any time, if you so desire.

Moncrief Air Conditioning Equipment is designed and built for all types and styles of homes, large or small and for all types of fuels.

Clip and mail the coupon on page 7 for additional information.

**THE HENRY FURNACE CO.**

MEDINA, OHIO





NEW! POST WAR

# Gas Fired

AIR CONDITIONING UNIT

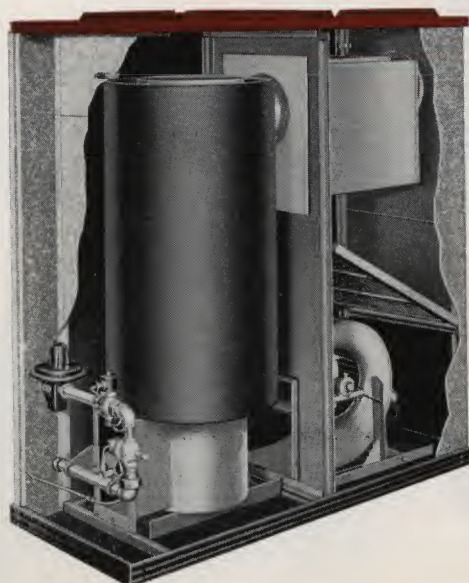
by **MONCRIEF**

Today, you can enjoy in your home Moncrief's NEW, post war Gas-Fired Air Conditioning Unit.

With this unit you'll get automatic heating and air conditioning that's years ahead in performance. Warm, filtered, humidified air in the winter and fresh invigorating air in the summer is circulated to every nook and corner of the home.

Moncrief engineers, with a background of over 50 years in developing and building heating equipment have produced an all-steel heating element of welded construction that is gas tight and which will provide many years of trouble-free heating service.

All operating parts are concealed inside the smartly designed cabinet which is finished in striking colors. This new post war Moncrief Air Conditioning has been approved by The American Gas Association.



View showing heating element, blower and filter.

## UTILITY ROOM MODEL

If you are building a home without a basement you can still enjoy all the comforts and conveniences of automatic heating and air conditioning with Moncrief's compact Utility Unit. You'll get the same operating efficiency of the basement unit.



Cutaway of circulating compartment showing blower and filter.





# *Gas Fired* AIR CONDITIONING UNIT

by **MONCRIEF**

(CAST IRON HEATING ELEMENT)

Moncrief offers in this distinctive model a completely automatic gas-fired air conditioning unit with cast iron heating element that is durable . . . efficient . . . economical and which has been approved by The American Gas Association.

Attractive and easily cleaned, the smartly-designed cabinet with its baked enamel finish fits

into any plan of basement design.

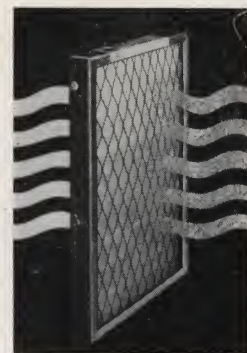
Front and rear door openings provide easy access to all burner controls and air conditioning equipment which are fully concealed within the cabinet.

In this unit Moncrief offers a truly remarkable value. You'll get years of satisfactory heating.

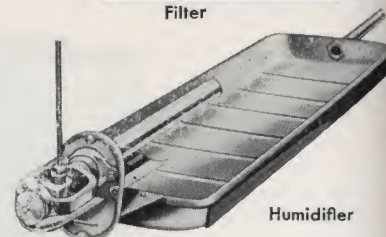
Efficient filters remove dirt, dust and pollen.

The humidifier connected direct to the water line automatically supplies water to the evaporating pan.

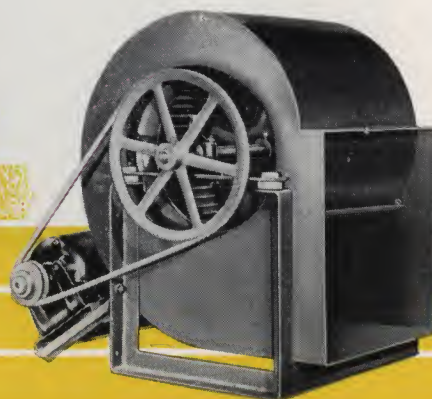
You'll enjoy the abundance of pure, healthful, humidified air the Moncrief blowers deliver in your home.



Filter



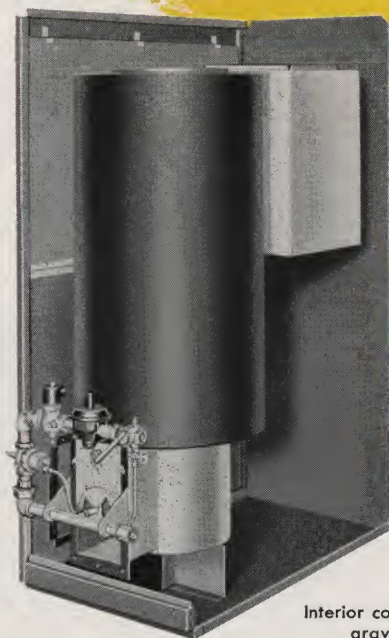
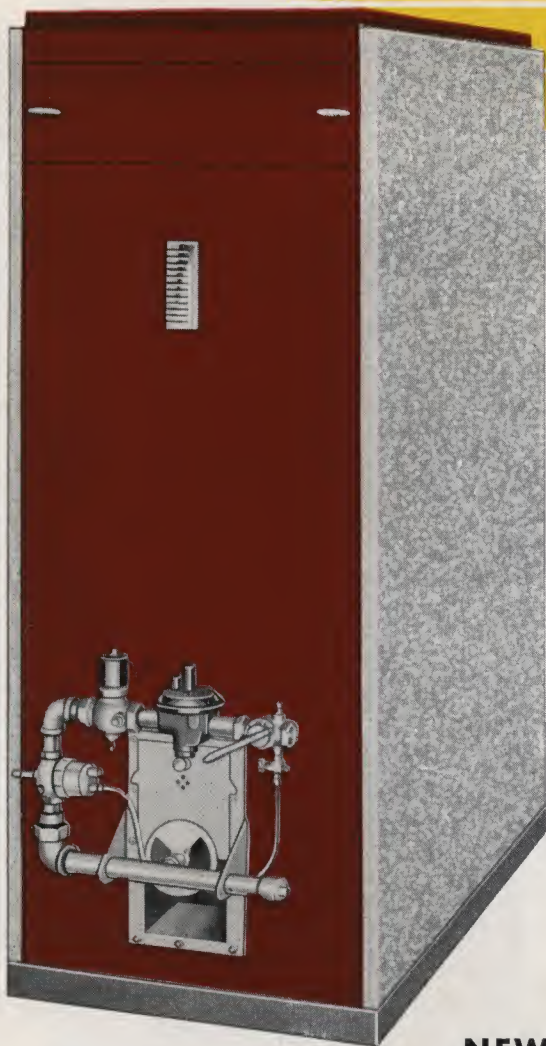
Humidifier



Blower







Interior construction of gravity unit

**NEW! POST WAR**

# *Gas Fired* GRAVITY UNIT by **MONCRIEF**

The most effortless convenience you can acquire in your home is Moncrief automatic gas heating.

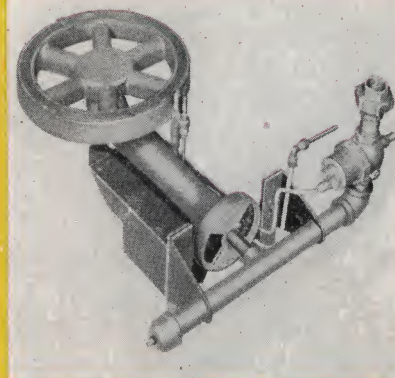
To enjoy this convenience all you do is—set your thermostat to the desired room temperature—light the pilot—then forget your heating problems for the rest of the winter.

With Moncrief—gas heating is clean. You're not bothered with coal, ashes, dust or dirt. Your home and furnishings stay clean longer.

Your basement can be as clean as your living quarters; it will have more room—no fuel storage bins.

Your heating cost for the entire heating season will be little, if any, more than the cost of coal heat.

Don't be satisfied with outmoded pre-war gas equipment when you can get Moncrief's NEW post war unit. Approved by The American Gas Association.



**MULTI-PORT BURNER  
BY MONCRIEF**

Revolutionary in design and construction.  
Efficiently burns all types of gas.  
Ignites and extinguishes silently.

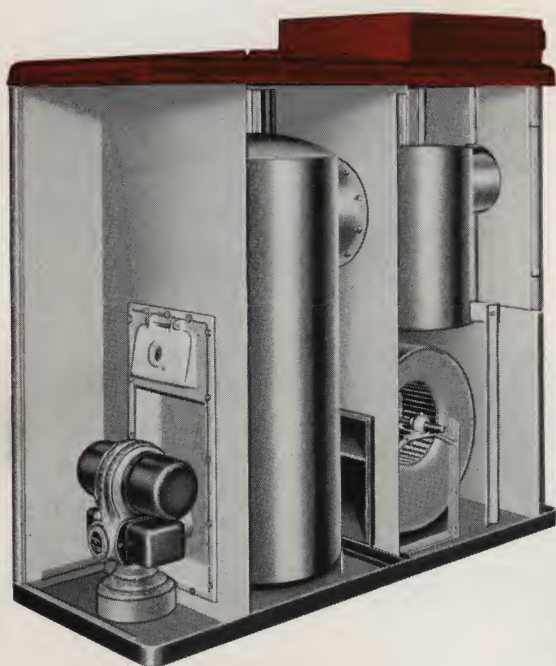




# Oil Fired

AIR CONDITIONING UNIT

by **MONCRIEF**



View showing oil burner, heating element and blower.



To the homeowner who prefers oil as fuel, Moncrief offers this smartly-designed, time-tested unit.

In every respect, you'll find this Moncrief unit provides the most modern features in oil-fired air conditioning equipment.

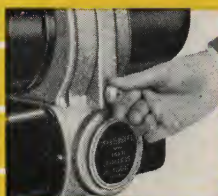
On cold, blustery winter days your home will be flooded with warmed, conditioned air. On those hot, stuffy summer days and nights fresh invigorating air can be circulated throughout your home.

Fuel bills and maintenance expense are held to a minimum through efficient design and long-lived construction.

The welded leak-proof construction of the heating element and the air filters assure clean, healthful heat in your home.



This advanced type oil burner is economical in fuel consumption and easy to install. All controls are readily accessible for adjustment and service.



Finger tip adjustment of air control easily and quickly regulates combustion efficiency.



Inspection and adjustment of nozzle line and electrode assembly are made without disturbing the mounting of the burner.



# Coal Fired

## AIR CONDITIONING UNIT

### by **MONCRIEF**

#### HAND OR STOKER-FIRED MODELS

If coal is your choice of fuel, hand-fired or stoker-fired, let's look into the Moncrief Coal-Fired Air Conditioning Unit illustrated below.

These units are constructed for long years of trouble-free service. Heavy gauge, riveted and welded all-steel heating elements—full height firepot, fire brick lined—heavy duty duplex grate—blower-humidifier and filter. For convenience in installation, the blower compartment can be placed at either side.

THE HENRY FURNACE CO.  
MEDINA, OHIO

Please have the nearest MONCRIEF dealer provide me with

( ) more information

(☒) cost of a MONCRIEF installation in my home

Name.....

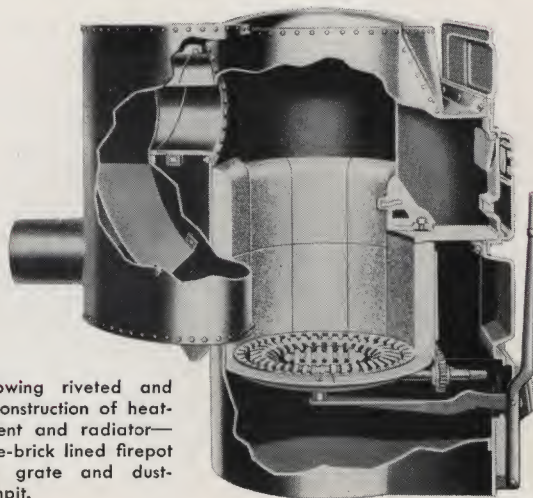
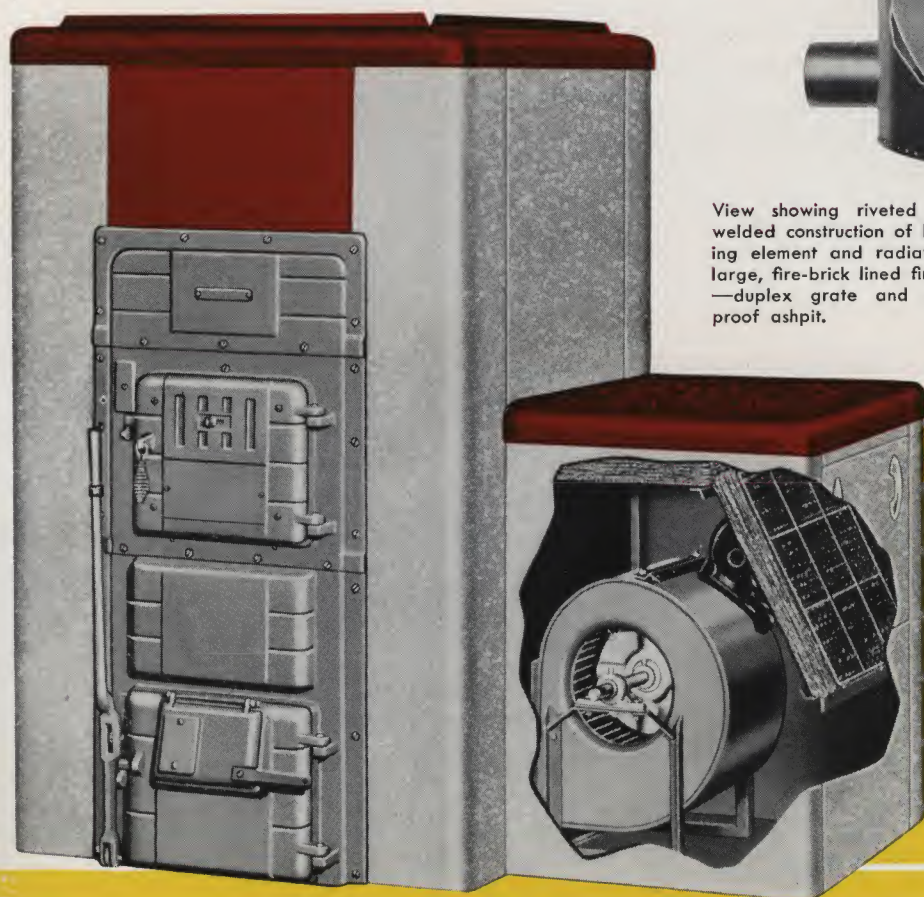
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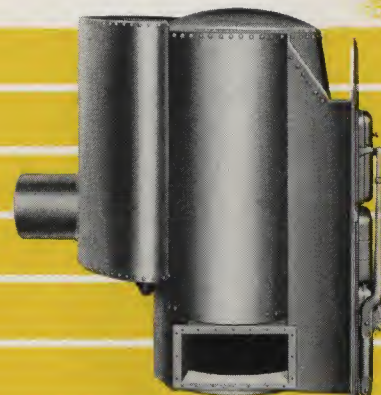
The outer cabinet is finished in attractive baked-enamel colors. It will not collect dust or dirt and is easy to clean.

You can enjoy those cold winter days with glowing, healthful, warmed air circulating throughout the entire house and on hot, stuffy summer days the circulation of cooled invigorating air.

These Moncrief Units are made in sizes for any type or style of home.



View showing riveted and welded construction of heating element and radiator—large, fire-brick lined firepot—duplex grate and dust-proof ashpit.



View of stoker-fired heating element, designed for bin or hopper feed.



# *50 Years of Experience*

## **ARE BEHIND MONCRIEF**

## **HEATING EQUIPMENT**

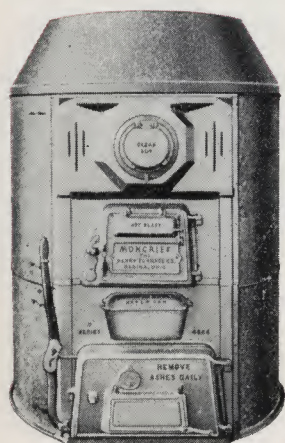
For more than 50 years the MONCRIEF aim has always been to deliver the biggest possible dollar value. Throughout all these years the MONCRIEF policy has been to build products that are soundly engineered, efficient in operation, and long-lived.

To hundreds of thousands of homeowners who have enjoyed efficient, economical heating with MONCRIEF Furnaces, the name MONCRIEF is a symbol of heating satisfaction.

When you invest in a heating plant, make Moncrief your assurance of dependability.

Your Moncrief Air Conditioning Unit should have Moncrief prefabricated air ducts to carry the air from the unit to the register. Instruct your heating contractor to use Moncrief prefabricated air ducts and fittings.

### **MONCRIEF PREFABRICATED AIR DUCTS**



### **MONCRIEF CAST IRON GRAVITY FURNACE**

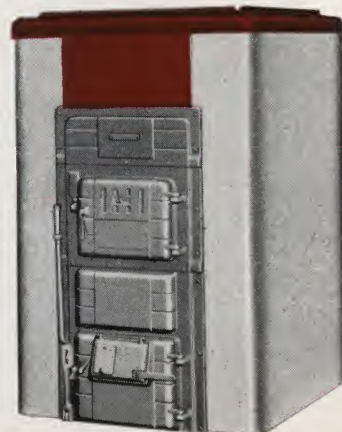
Where a low-priced, yet highly efficient heating plant is desired, this type furnace has been popular for many years.

Heavy cast iron construction with a minimum of joints—heavy duty duplex grates make this furnace a big heating value for the low-priced home.

### **MONCRIEF STEEL GRAVITY FURNACE**

Encased in this square, enameled cabinet is an efficient coal-fired furnace built for long years of trouble-free heating service. Riveted and welded, gas tight construction of heating chamber and radiator—heavy duplex grates—brick-line firepot.

This surprisingly low-priced furnace is also available in standard round cased models.





# MONEL

*in your home*



**THE INTERNATIONAL NICKEL COMPANY, INC.**

**67 WALL STREET**

**NEW YORK 5, N. Y.**



# MONEL SINKS and CABINET

## .. for enduring beauty in your Kitchen

Bright, spotless sinks and work tops—work-saving streamlined metal surfaces—modern kitchen equipment that is chip-proof, rust-proof and wear-proof—yes, that is what Monel can do for your kitchen.

Consider—Monel is solid metal—it won't chip, crack or craze. Monel just cannot rust because it is made two-thirds of nickel, one-third of copper. For use at the sink it adds a special advantage—its resilience deadens sound and so reduces "kitchen clatter," and helps protect your fine glass and china against chipping.

For more than a quarter century Monel has been serving in the home as well as in industry—wherever you find severe service that other metals can't take, where purity and easy cleaning are vital, wherever foods are handled. In the best hotels, in hospitals, on board ocean liners and cabin cruisers, in streamlined apartments, in large homes and small—wherever you find modern kitchens, you'll

find beautiful Monel equipment used and appreciated.

And that's only natural, because Monel is resistant to the alkalis found in cleaning solutions—practically impervious to food and fruit acids. Nothing you ordinarily use around the sink can affect it. It stands up under hard knocks. There are no seams or crannies for dirt and grease to collect in. It has a finish like the lustre of fine sterling—a beauty that actually improves with age. And to keep its lovely lustre you need practically do nothing but wipe it with a damp cloth when the day's work is done.

Picture Monel in your kitchen, and see how beautifully this silvery metal will blend with any color scheme you want to have. On these pages we show a few kitchens which have been Monel equipped and you can see how Monel's qualities have been utilized to save hours of time and to eliminate drudgery.





# TOPS

## OUTSTANDING *Advantages*

of  
**MONEL SINKS and CABINET TOPS**

- ★ Sparkling, silvery appearance  
—improves with use
- ★ Rust proof and stain resistant
- ★ No coating to chip, crack or  
wear off
- ★ The hottest pots and pans  
cannot mark it
- ★ Easy to clean and keep clean





# **MONEL TANKS** *for* **WATER HEATERS** *and* **RANGE BOILERS**

One of the most exasperating situations in your home is to have your hot water run red and full of rust particles. You can't do anything with rusty hot water. It contaminates everything it touches. It won't do for internal use. It simply adds needless hours of useless work to your busy days.

And it's so simple to avoid this recurring trouble, so simple to insure a never-ending abundance of clear, sparkling hot water. Just make sure that your tank is made of Monel, the metal that just can't rust because it is made of two-thirds nickel and one-third copper.

Monel tanks are available in all common sizes for every type of gas and electric water heater, as well as for range boilers and storage tanks.




**FOR DETAILED  
INFORMATION ABOUT  
THESE MONEL PRODUCTS  
PLEASE WRITE TO US  
OR HAVE YOUR BUILDER  
OR ARCHITECT CONSULT US**

*Consumers Products Division*

**THE INTERNATIONAL NICKEL COMPANY, INC.**  
**67 WALL STREET** **NEW YORK 5, N. Y.**





# IRON FIREMAN

**AUTOMATIC**



**HEATING**

**H**EATING is the greatest single item in the maintenance budget of the average home.

It is also the most important factor in home comfort and, if not up-to-date, the heaviest contributor to home drudgery. Any new home that fails to offer automatic heating has unnecessarily impaired its sales value, for Iron Fireman provides

luxurious automatic heating at a cost that makes it available even to homes in the low cost field.

Whether the most advantageous fuel in your locality is coal or oil, Iron Fireman is prepared to supply you with the highest type of automatic heating, in either the Iron Fireman coal stoker or the Iron Fireman oil burner.

**THE MACHINE THAT MADE COAL AN AUTOMATIC FUEL**



## IRON FIREMAN COAL FLOW STOKER

**FOR  
INSTALLATION  
IN ANY  
FURNACE  
OR BOILER**

The Iron Fireman *Coal Flow* model (shown here) feeds coal directly from bin to furnace. It can be readily installed in practically any type of boiler or furnace, converting it to an automatic heating plant.



● The Iron Fireman *Coal Flow* is the *ultimate* in stokers—an engineering triumph that climaxes Iron Fireman's long leadership in design and construction. You never need see the coal—it is “piped” from the bin right into the furnace.

The Iron Fireman stoker is controlled by a room thermostat and day-and-night time switch, which automatically shifts from day to night temperature, and back to day-time level at any desired time. There is another Iron Fireman automatic control which is of supreme importance—the Volumeter. This exclusive Iron Fireman

device keeps fuel and air in correct balance for maximum combustion efficiency *at all times*. So efficient is Iron Fireman firing that it uses less coal than hand-firing, and reduces fuel costs far below other automatic fuels.

The Iron Fireman stoker is the pioneer in this type of home heating. Unflagging engineering research and a quarter-century of experience makes Iron Fireman the yardstick by which other stoker equipment is measured. In engineering, in metallurgy, in precision manufacture, in nation-wide service, in *every feature*, it is the top stoker value.





# Automatic Coal Firing

**IRON  
FIREMAN**

## IRON FIREMAN UNIT HEATMAKER



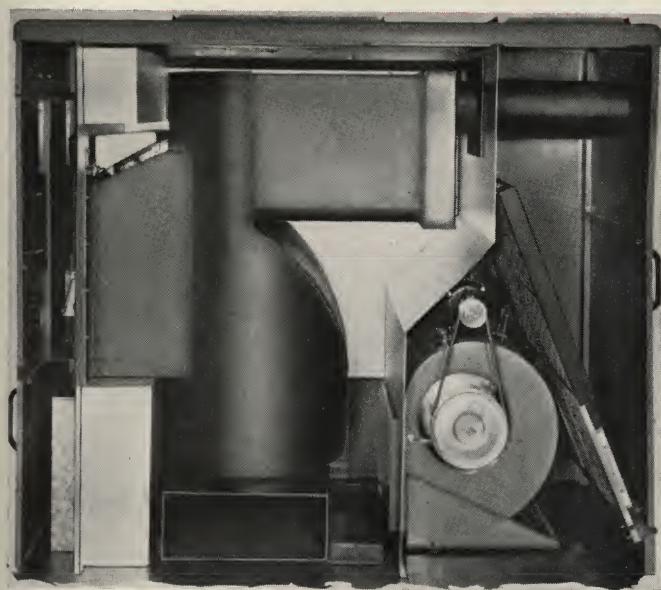
### WARM AIR FURNACE UNIT with Built-in Coal Flow Stoker

Within this attractive cabinet you will find:

1. A steel furnace to warm the air.
2. An Iron Fireman *Coal Flow* automatic stoker which feeds directly from coal bin.
3. A humidifier to supply proper moisture for the air in the house.
4. Filters to cleanse the air.
5. An air circulator to keep the rooms supplied with a steady flow of clean, warm, humidified air.

With this warm air furnace in the basement, the owner can set the thermostat and then begin enjoying the steadiest, most comfortable heating obtainable. This unit does a complete winter airconditioning job.

## IRON FIREMAN WARM AIR FURNACE



Furnace with side panel removed. Notice welded steel tunnel below the circular furnace. The Iron Fireman stoker fits into this tunnel which is completely sealed off from the air passages.

### with Built-in Iron Fireman Oil Burner or Coal Flow Stoker

The unpleasant odor often noticed in furnace heating is due to the scorching of dust particles in the over-heated air. By adhering to the principle of circulating a large volume of warm air, and passing it through filters, rather than overheating or scorching a smaller amount of air, the Iron Fireman furnace economically heats a large amount of space for its size and fuel consumption. The heating elements allow the air to flow easily over extremely large heating surfaces, which permits a quiet, low speed fan to circulate large volumes of clean, filtered air. This furnace is available in several sizes.



End view (left) shows the very large filter area, where dust, lint and pollen are trapped. The trim, handsome cabinet of the furnace is shown at the right.

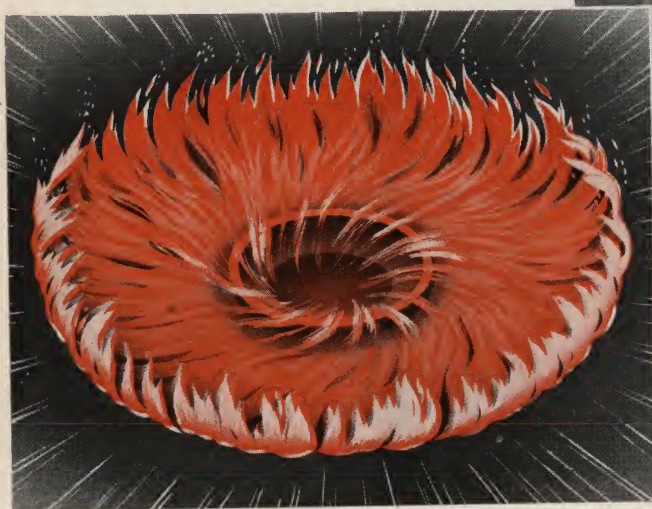




# IRON FIREMAN *Vortex* OIL BURNER

**The famous Iron Fireman  
luminous fire is now achieved  
in the "Vortex" flame of  
the Iron Fireman oil burner**

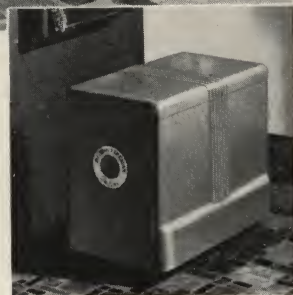
The Iron Fireman Vortex oil burner produces a highly efficient, luminous flame from a bowl-type retort, which imparts a rotating motion to the flame. Heated gases from this rotating flame are pulled down into a partial vacuum or "vortex" in the center, created by the whirling outward motion of the air. In the production of radiant heat it is comparable to the famous Iron Fireman coal fire. The high fire box temperature developed turns the atomized oil into a gas which burns intensely and completely.



*Above, the Iron Fireman Vortex oil burner (without housing) installed in a conventional domestic furnace. It is readily adaptable to any soundly constructed furnace, converting it to a fully automatic heating system.*

*Right, the Vortex oil burner is enclosed in an attractive housing as shown.*

*Left, the retort, showing the rotating, luminous flame.*



## IRON FIREMAN MANUFACTURING CO.

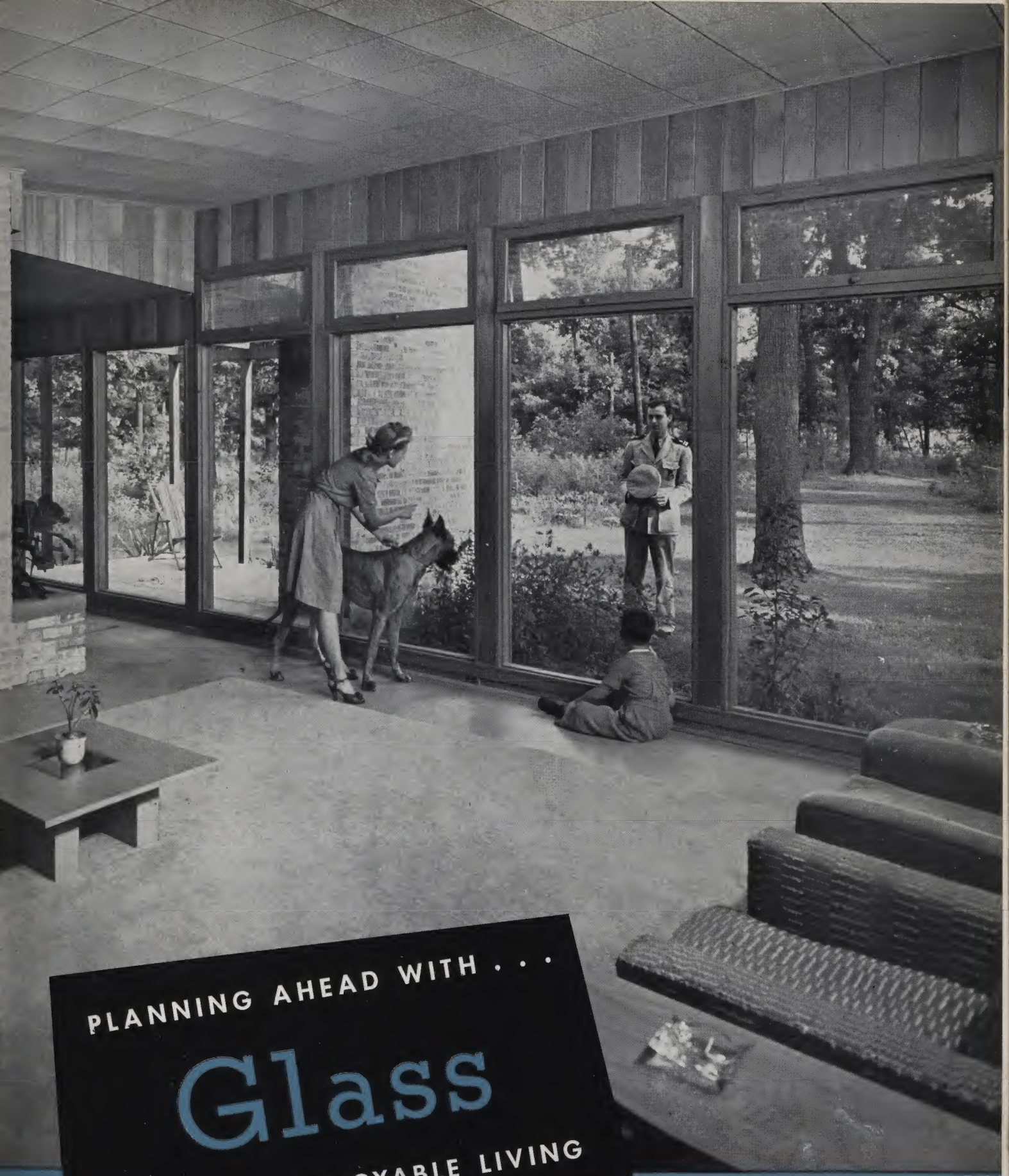
Portland, Oregon

3170 West 106th Street  
Cleveland 11, Ohio

Toronto, Canada

Form 8020—Copyright 1945, Iron Fireman Mfg. Co.—Printed in U.S.A.





PLANNING AHEAD WITH . . .

**Glass**

FOR MORE ENJOYABLE LIVING

LIBBEY · OWENS · FORD GLASS COMPANY







## **MANY NEW IDEAS**

have been developed in home construction and decoration in recent years. Most prominent among them has been the greater use of glass. The purpose of this book is to help you see what glass can do for your home . . . to show you how you can use it to add charm and beauty to every room . . . how it can give interiors a more spacious, more cheerful feeling . . . how modern glass can make your home more comfortable, and easier to clean.

## **GLASS IS A VERSATILE MATERIAL.**

It can be used in many more ways than we can show here. But these ideas can be adapted, if necessary, by you and your architect to fit your individual needs and desires . . . to provide more livability, more enjoyment.

## **AND REMEMBER THIS**

. . . glass can do as much for the small house as the large, perhaps more. It adds smart, individual touches that mark your home as up to date . . . makes it the kind of place that will be a constant source of pride and satisfaction to all your family . . . a home that will win the admiration of all who see it.



# FOR MORE CHEERFUL, MORE INTERESTING ROOMS

# "Open" THE WALLS WITH Glass



● Cheerfulness goes hand in hand with daylight and outdoor beauty.

And so, why not plan to bring in more daylight and make the most of outdoor views? Open your rooms to both—with glass.

Perhaps you've noticed the trend to larger windows in recent years. Why? Not just to be different—but because architects and owners have found through experience that homes with greater window areas are more cheerful, more pleasant places in which to live. They have a more spacious feel . . . they permit enjoyment of the beauties of the ever-changing landscape. Such homes capitalize on the often taken-for-granted ability of glass to let your eyes roam to the outdoors while you sit cozily inside.

You might wonder about privacy. Your architect can take care of that by careful landscaping . . . by facing larger windows away from passing traffic . . . or by using beautiful translucent architectural glass that brings in the light but guards your privacy.

No longer need you worry about excessive heat losses where large windows are used . . . even in cold climates. That problem has been answered with Thermopane—the Libbey-Owens-Ford windowpane that insulates. Thermopane allows you



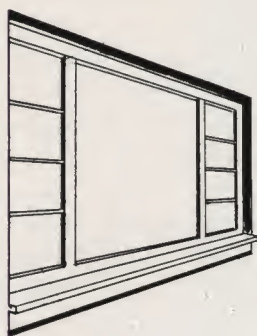


to enjoy the charm of bigger windows with comfort and heat savings you'd never imagine possible in cold weather. Thermopane consists of two or more panes of glass, with a hermetically-sealed dead air space between. You'll find a description of Thermopane on pages 22 and 23. It's one of the important "better things" that technical research and industrial progress have made available for your new home.

Your architect is familiar with the many ways glass can give your home greater beauty, charm, comfort and a feeling of greater spaciousness. These and other benefits are summed up in the term "DAYLIGHT ENGINEERING" . . . the intelligent use of glass to achieve predetermined, desired results. Ask your architect to include the many advantages of Daylight Engineering in the design of every room of your home.

## CHOOSE THE TYPE OF WINDOW THAT BEST FITS YOUR NEEDS

● Libbey-Owens-Ford does not make windows . . . only the glass with which they are glazed. But we wish to call to your attention several types of windows commonly used in modern home construction.

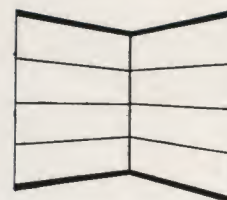


### PICTURE WINDOWS

You will want a large window in many rooms of your home. The big area of clear glass presents an unobstructed view of the outdoors. It brings in beauty—brightens and livens the whole room. You can provide ventilation with windows which open on either side, or a louvered opening above or below the main window.

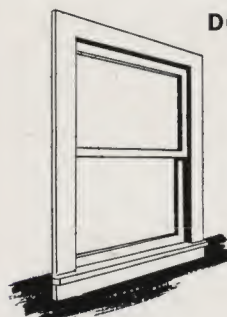
### CORNER WINDOWS

Provide a broader view and bring daylight in from two directions. Widely used in recent years, they are very popular with homeowners who have them.



### DOUBLE-HUNG WINDOWS

In wood or metal. This is the familiar type that slides up and down. Such windows are available in a wide range of types and sizes to meet almost any requirement for daylighting and ventilation.



### BAY

You may want your Picture Window projected into a bay. It provides an area for a window seat, or an indoor flower garden. And it tends to give the room a more spacious feeling.



### CASEMENTS

In metal or wood. Casement windows swing in or out—some of them are operated by a mechanical device on the inside window sill. They are available in a wide range of types and sizes.



### A WORD ON WINDOW DESIGN . . .

This is a familiar type of window, with the glass divided into small panes. Note how it cuts up the view, prevents full enjoyment of the scene.

A step to better visibility. This window is in keeping with modern trends. Such a window offers benefits in easier cleaning and repainting.

This window provides an unobstructed view. In effect, it's a beautiful mural you can enjoy the year 'round. Easier to clean and repaint, too.





# GLASS PUTS LIFE IN THE Living room

● Glass has glamor. It offers boundless opportunities to give your living room a brighter, cheerier atmosphere—and a feeling of pleasant spaciousness. Glass is a practical material, too. It's easy to clean. Its finish is unharmed by spilled liquids. And it never needs refinishing.

● Glass can put zest into every part of your living room. You'll want to make the most of the outdoor view with a huge Picture Window glazed with L·O·F Thermopane. Behind the sofa you can project a dynamic extension of the entire room with a tall, broad mirror. And a mirror will dress up the mantel, too. Glass is not relegated to the walls alone. Oh, no! For an unusual flavor, make one of your tables all glass . . . use glass shelves for knickknacks, and a graceful sweep of glass along your stairway. There's no end to the things you can do with glass to liven up your living room. Try it and see.



**COLORFUL MURALS** the year 'round—when you have big Picture Windows like these. They lift the room out of the ordinary, flood it with cheerful sunshine. And because they're glazed with Thermopane, comfort is not jeopardized in winter.





A WALL SPRINGS TO LIFE under the clear magic of a mirror, placed behind the sofa, where it can "double" the coloring of the room. Crowded rooms take on new spaciousness when the wall is "moved back" with a mirror.

ATTRACTIVE "INSIDE" WINDOW of fluted decorative glass brightens and enlivens what might otherwise be a drab and uninteresting wall. Use this lovely glass in windows when you want to cut off an undesirable view.



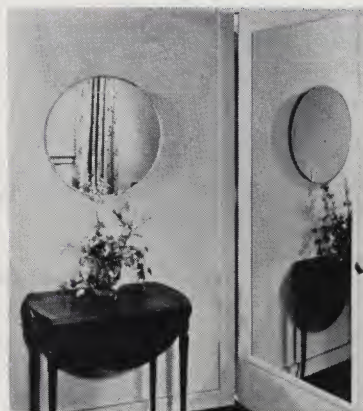
PRACTICAL AND CLEVER . . . this table with a top of clear glass. It comes sparkling clean, like new, no matter what you spill on it.



CHARMING BACKGROUND for your favorite table or chest. Use an occasional mirror of a style that harmonizes with your furnishings.



COMPLEMENT TO A FIREPLACE . . . a crisp, unframed mirror. It brightens the whole room by reflecting daylight from a window.







NO HARM CAN COME from spilled ink or frequent washing when your desk is topped with clear glass.

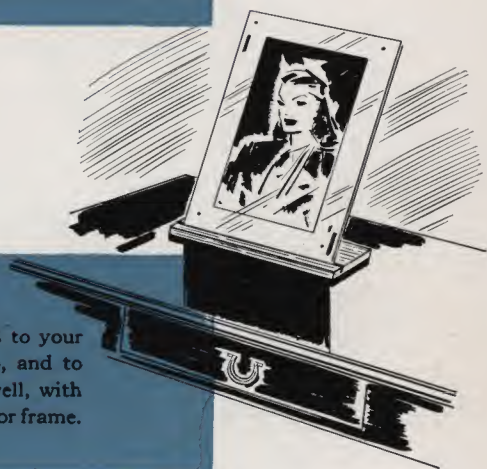
BEAUTY AND CONVENIENCE are combined in this unusually attractive fireplace faced with colorful Vitrolite. It comes sparkling clean with a damp cloth. Note the glass shelves backed with mirrors.



GUESTS WILL APPRECIATE this handy, full-length mirror. Fine for you, too, for a last look before departure.



CURE DARK WALL AREAS with an attractive partition of fluted glass between the living and dining rooms.



DO JUSTICE to your favorite photo, and to the room as well, with a lustrous mirror frame.

LOVELY TO LOOK AT—and sensible. This charming table has stain-proof glass for its surface, and you can see your favorite magazine underneath.



DRAMATIZE YOUR STAIRWAY with a two-story bay window, glazed with Thermopane for insulation.



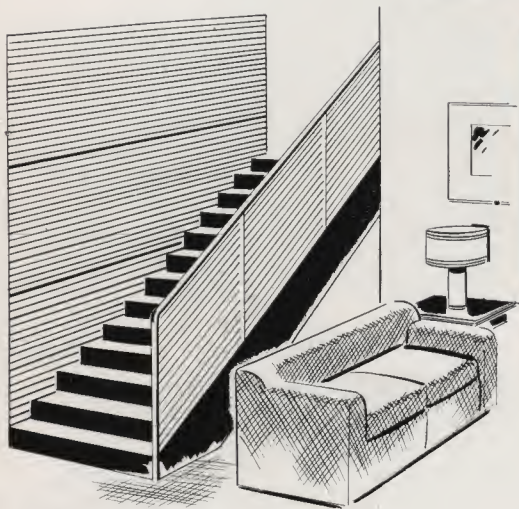




**BRIGHTEN THE HALLWAY**  
with decorative panels of translucent figured glass—or with small, transparent panels, if you want to see who's at the door.



A **LIGHT TROUGH** fitted with translucent glass is ideal, diffuses light softly, evenly throughout the room.

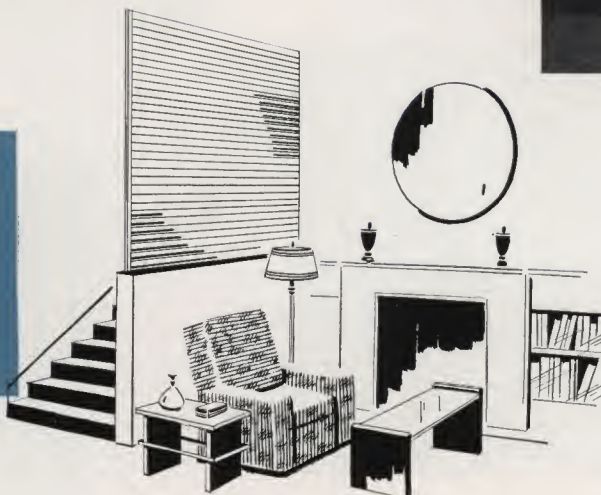


**NO DARK STAIRWAYS** when a translucent glass partition shuts off the steps without shutting out light.



**THIS STUNNING TABLE** can be made of Tuf-flex, the Libbey-Owens-Ford glass that is tempered for extra strength. What a welcome addition to a living room!

**VERY ATTRACTIVE** . . . a stair panel of sparkling fluted glass. It transmits light from the room onto the steps. And it's so easy to clean.







**FAVORITE LOUNGING SPOT . . .** a porch enclosed with L-O-F Thermopane for year 'round insulation is a cheerful, healthful place for leisure hours.



**BRING LIGHT THROUGH** panels of decorative glass to highlight favorite bric-a-brac.



**TWO ROOMS FROM ONE** is almost as easily done as said, when the partition is of patterned glass panels between the living and dining areas.

**CAPITALIZE ON THE COLOR** of your book bindings . . . and preserve that color by putting clear glass doors on your book cases.



**FEATURE YOUR KNICKKNACKS** on clear, sparkling glass shelves. Sliding glass doors will reduce the number of dustings.



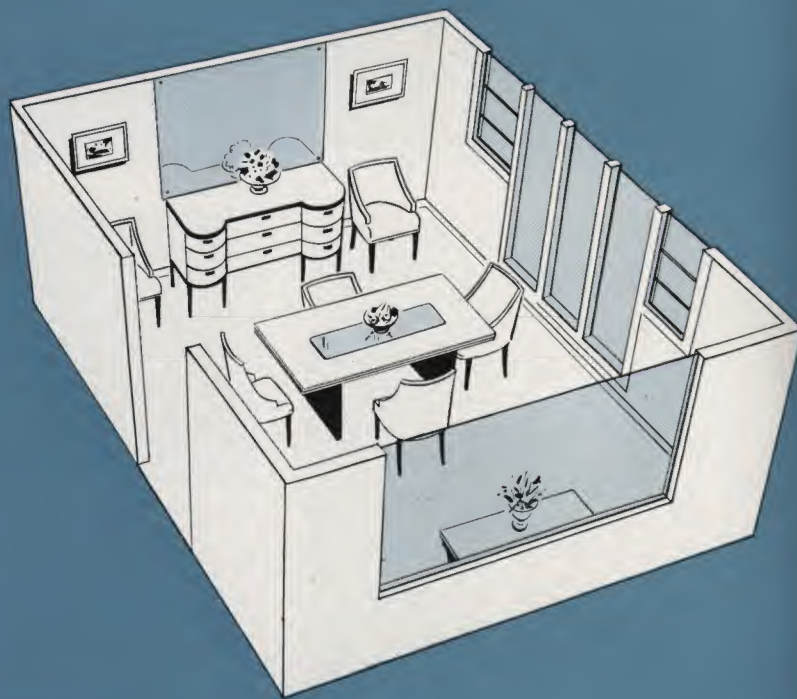


# GLASS DECORATES THE Dining room

● Here's a room that fairly begs for light and cheer . . . and there's no better way to get them than with glass. Light and cheer go hand in hand with relaxation, an important element in any enjoyable meal.

● What can glass do for your dining room? Give it a feeling of extra spaciousness with mirrors. Bring in the beauty of the outdoors, through Picture Windows. Flood the room with a soft, flattering light—from fluorescent lamps concealed behind attractive, patterned translucent glass.

Glass is so decorative! Under candlelight, it sparkles, catches the high lights, casts twinkling reflections. So, as you plan your dining room, remember to take advantage of the brilliance of glass—to eliminate dark corners and enliven every part of the room. There's almost no end to the ways glass can add charm to your dining room. Perhaps the examples shown here will suggest many ideas that fit into your plans.



**CHANGES OF SCENE** come naturally with changes of weather and season, through a huge Picture Window like this. Glazed with Thermopane, it provides insulation that saves heat and adds comfort. The casements open for ventilation.





EXCITINGLY BEAUTIFUL...  
tall door with figured glass panels.



SPARE YOUR ENERGY with a stationary dumb-waiter. Close the mirrored doors, and presto! You'd never suspect there's a kitchen behind. Note the attractive patterned glass windows . . . wonderful light catchers, and ideal where the view's not too good.

DOUBLE DUTY . . . a gleaming glass partition gives extra charm and brightness to both the dining room and the living room or kitchen on the other side.



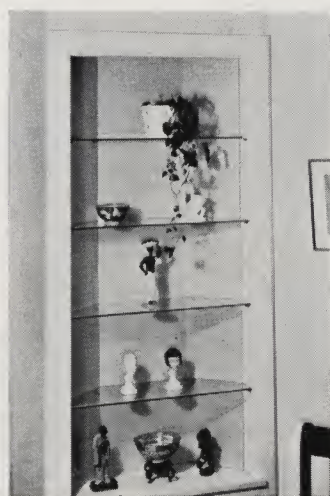
FEWER DUSTINGS are necessary when china cupboards are enclosed with attractive glass doors.



DRESS UP YOUR WINDOWS with gay, pretty plants and glassware on good-looking, easily cleaned glass shelves.



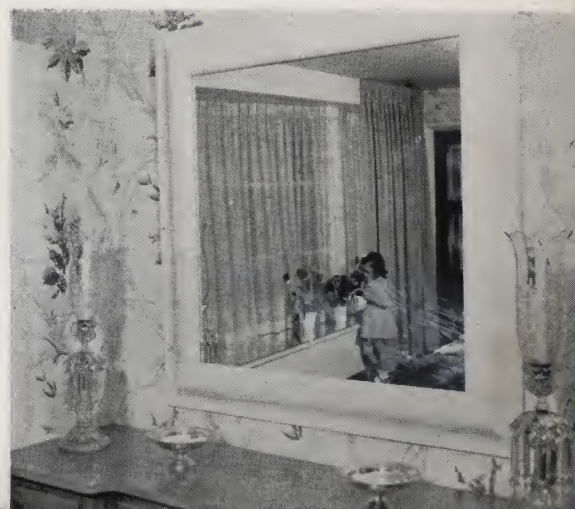
EXTRA SPARKLE for your knickknack display when shelves are clear plate glass.



HINT OF GRACIOUS LIVING . . . in the smooth-swept lines and true reflections of this sparkling buffet mirror, made with L-O-F Plate Glass.



DOUBLE LOVELINESS in this centerpiece . . . a silvery mirror to reflect the beauty of flowers or baubles. Carry through the sparkling theme and spare the laundry bag with mirror plaques for individual settings.

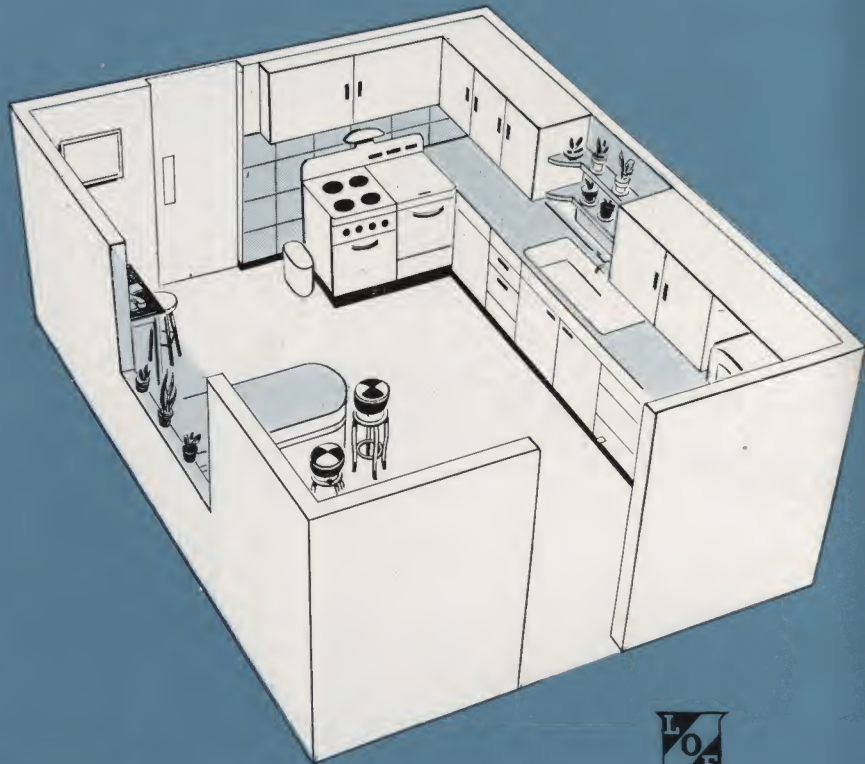




# GLASS BRIGHTENS THE Kitchen...LIGHTENS THE WORK

● Glass is modern . . . not only in its decorative possibilities, but as a work saver as well. It gives luster and color to your kitchen . . . *permanent* luster and color, for glass won't fade or tarnish. And it comes clean with the whisk of a cloth.

● You'll spend most of your day in the kitchen. Make yours cheerful, light, easy to work in, by opening the walls with glass. Bring in the sunlight and an exciting view of the outdoors. For wainscoting and work surfaces, use Vitrolite, the attractive, colorful structural glass. It gives a sanitary spic-and-span look to your kitchen, and reduces cleaning chores. Glass adds safety in the kitchen because it's noninflammable.



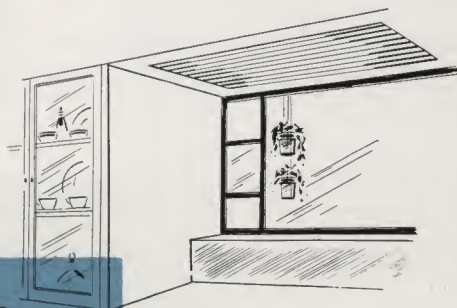
THIS LIGHT, CHEERY KITCHEN uses glass in beautiful and practical ways. The large, clear Picture Window allows enjoyment of the outdoor view. For heat saving and comfort, it's glazed with Thermopane. Work surfaces are flooded with daylight through decorative translucent panels of figured glass. If preferred, these panels could be clear glass, to permit a view of the garden and the flower boxes outside.

The fluted, sliding glass doors eliminate groping for the right jar, and add a decorative note. Shelves, too, are glass—which spares the fuss of endless shelf-paper changing.





**TRANSFORM** a corner of your kitchen into a dinette with a tall screen of patterned glass. Grease spots from cooking are no problem on glass.

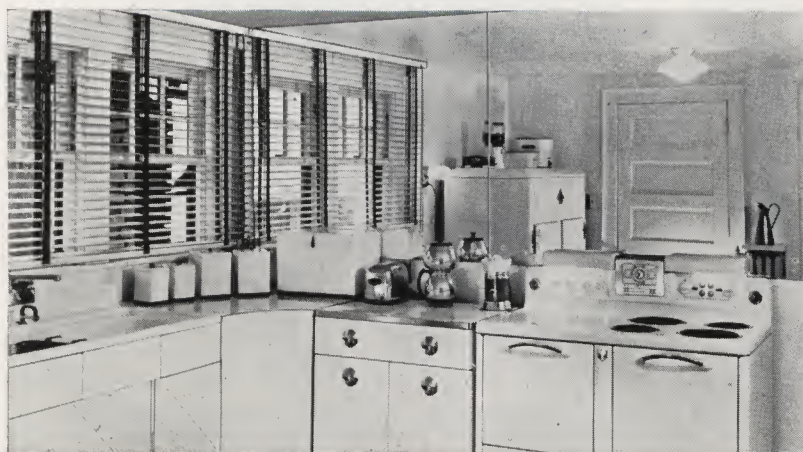


**EASY ON THE EYES . . .** soft, diffused light from a recessed fixture faced with a patterned glass. Over the sink, it eliminates working in your own shadow.



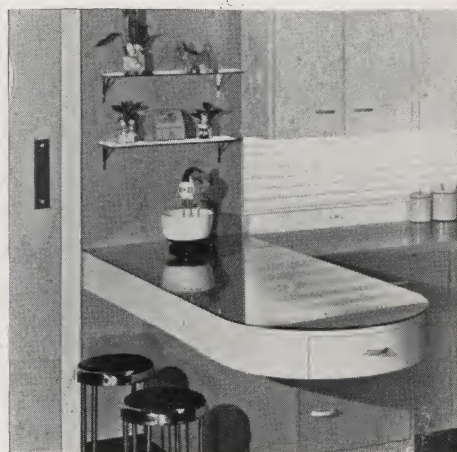
**"BACKYARD MIRROR"** reveals instantly who's at the door. A mighty reassuring gadget when the woman of the household is alone.

**EASY-TO-CLEAN SURFACE** for your breakfast bar . . . Vitrolite, in a variety of gay, permanent colors.



**HERE'S WINDOW MAGIC**—the brightness and attractiveness of the windows in this kitchen are, in effect, "doubled" with this mirror.

**PRETTY AND PRACTICAL . . .** Vitrolite wainscoting. Its glistening, colorful finish will not fade or wear off. A swish of the cloth wipes it spotless.



**A "PRIMING MIRROR"** for a quick dab of lipstick will pep up your morale.



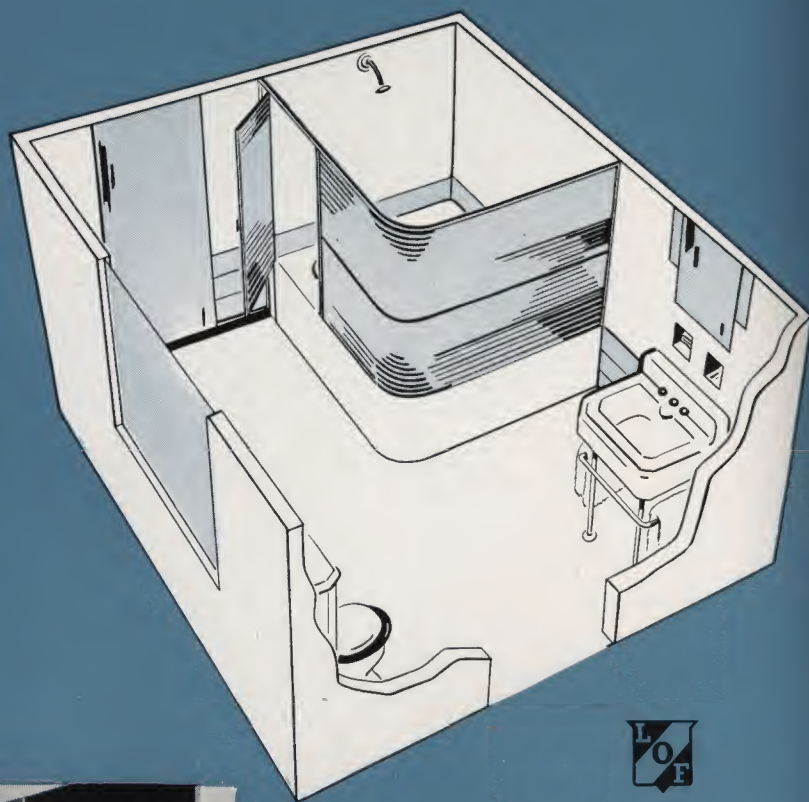


# PUT SPARKLE IN THE Bathroom • • WITH GLASS

● You'll want your bathroom not only easy to clean, but clean-looking as well. You'll want it colorful, with a touch of smartness. These are desires you easily can realize by taking advantage of the versatility of modern glass.

● There's a lot of satisfaction in having a cheerful looking bathroom. It's a room that guests always notice—a room which marks your home as up to date or old-fashioned. So, give it sparkle—give it beauty—with glass.

Glass doesn't mind water, spilled lotions or powder. It's a thoroughly practical material for surfaces in the bathroom—walls, shelves, shower stall. And, of course, you'll want an arrangement of mirrors—not only for convenience, but also to "enlarge" what usually is the smallest room in the house.



A ROOM TO BE PROUD OF . . . this striking bathroom, with walls of blue and white Vitrolite structural glass. Its lustrous finish always wipes clean, always looks new. The decorative figure is sand-blasted on the Vitrolite wall behind the tub.

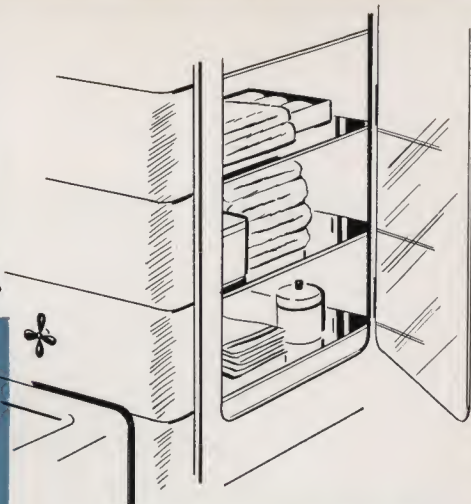
The shower stall door is clear glass. Toiletries are arrayed on plate glass shelves, backed by a lovely panel of patterned glass. The large mirror over the washstand aids dressing and shaving, accentuates the beauty of the entire room.







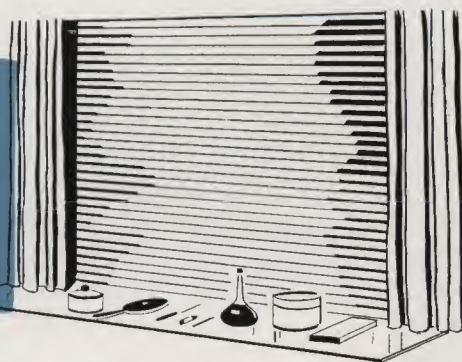
**CHARM AND PRACTICALITY** join hands in this combination tub and shower. The enclosure provides protection from drafts and keeps water from splashing into the room. Note the full-length mirror . . . a convenience in any bathroom.



**ADD THE COLOR** of your towels to your decorative scheme. Behind clear glass doors, they'll always be handy. Use clear glass for shelves, too.

**GLASS BRIGHTENS A ROOM . . .** gives it extra appeal. This delightful bathroom is flooded with light through panels of Doublex patterned glass. (Photo courtesy of Armstrong Cork Co.)

**CONDENSATION IS NO PROBLEM** when your bathroom window is glazed with Thermopane. For privacy use Thermopane made with translucent Blue Ridge Glass, described on page 28.



**PLEASE YOUR GUESTS** with a chic powder room. Provide a plate glass mirror over the washbowl—another over the dressing table.



**A HANDY PLACE** for shaving things, cosmetics and toiletries . . . this glass shelf over the washstand.



**CLEVER THREE-WAY MIRROR . . .** it's a practical help in shaving and make-up.

**LIGHT AND PRIVACY** both are provided by a screen or partition of decorative glass.



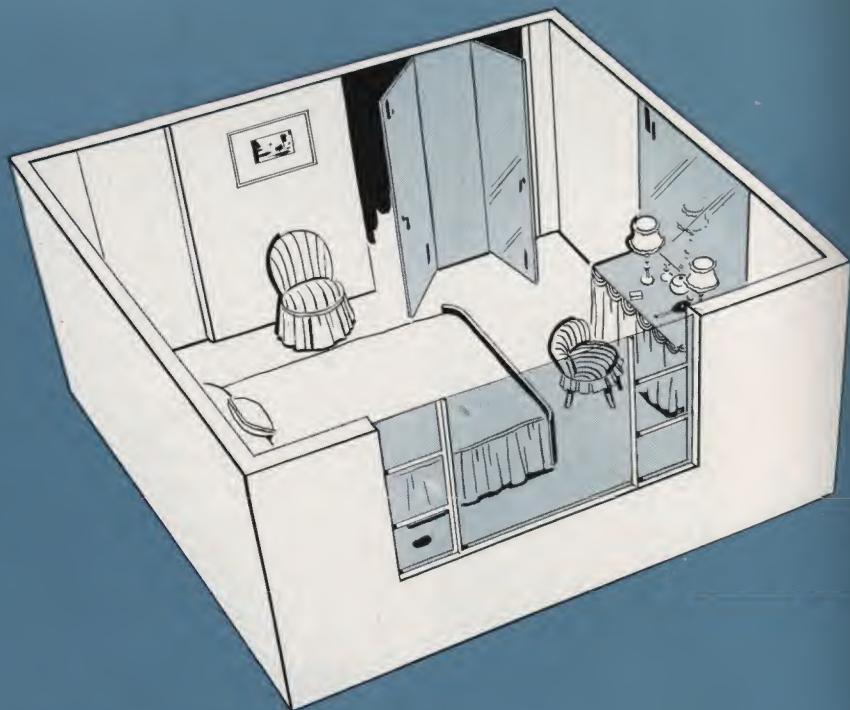


# GLASS DRESSES UP THE Bedroom

● Here's a room that calls for the last word in beauty and loveliness . . . and it's a room in which you can use glass effectively in both practical and striking ways.

● You'll probably have windows on two, maybe three, walls of your bedroom. How to brighten up the other walls? Use mirrors. They'll catch the light and color of the outdoors, reflect them into the room. Partitions of Satinol decorative glass offer another novel means of brightening inside walls.

Glass is a versatile decorative material. It has a lustrous, beautiful finish that never loses its charm, never needs renewing. Among the ideas shown on these pages may be just the suggestions you need to "dress up" the bedroom you are planning.



**PREVENT DULL WALLS** by creating interesting, colorful areas with mirrors. Here a large mirror between the windows reflects the beauty of the entire room. And, in effect, it "doubles" the spaciousness.





A PICTURE WINDOW brings in outdoor beauty. This lovely window is Thermopane, which cuts heat loss, reduces condensation, adds comfort. The casements swing out for ventilation.



A CLOTHES CLOSET WINDOW will shorten your search for the right dress. Remember, moths don't like a lighted closet. Another tip, a clear glass shelf lets you see what's on it from below.



A GLASS WIND DEFLECTOR will prevent direct drafts from an open window. Made of glass, it won't keep out daylight.



**DOES IT MATCH?** Your daughter will welcome a good mirror, handy for trying on the latest fad.



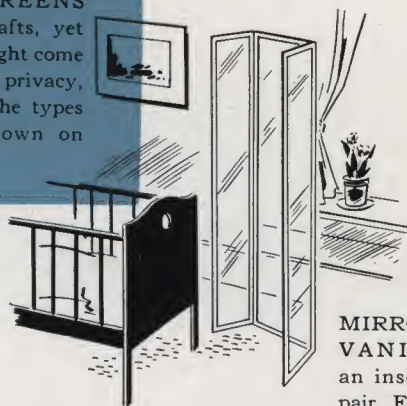
**TEACHING PROPER GROOMING** is easier when children have their own mirrors. Make them proud of their appearance—and their rooms—with mirrors.



**HOW DO YOU LOOK** before the guests arrive? Find out—with a three-way full-length mirror that gives you an all-over view.



**GLASS SCREENS** ward off drafts, yet they do let light come through. For privacy, use one of the types of glass shown on page 28.



**MIRROR AND VANITY** are an inseparable pair. For extra glamor, choose a mirror made of colored glass. A clear glass (or mirrored) vanity top is ideal. Cosmetics won't harm glass.





# MAKE THE BREAKFAST ROOM A CHEERFUL SPOT WITH **G**lass

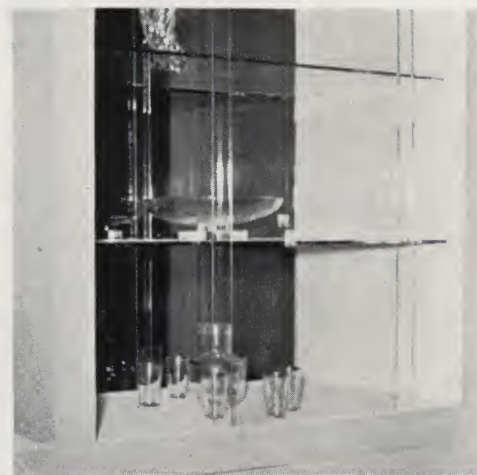
THIS WALL DOES DOUBLE DUTY, as a space for a built-in seat and also a window. Slanting the bay out at the top makes the room larger . . . gives the dinette a "different" look. The folding decorative glass screen, when closed, separates kitchen from dining space.



ENJOY A GARDEN VIEW with your toast or coffee. Get mornings off to a good start, with breakfast by a cheer-giving window like this.

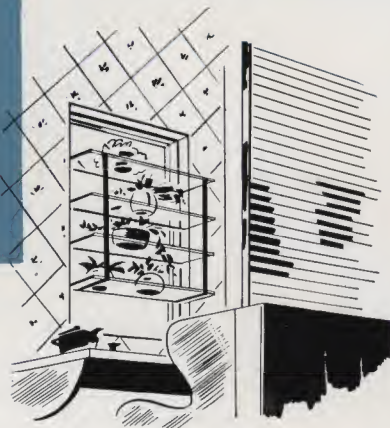


HOT COFFEE CAN'T HARM the lustrous beauty of a Vitrolite table top. Dirt and finger prints wipe off with a sweep of a damp cloth.



CHARM AND UTILITY are combined in these sparkling glass shelves enclosed by sliding glass doors.

SMART LITTLE SHELVES provide an added touch of color when they hold flowers and favorite knick-knacks.



AN IDEAL SPOT FOR FLOWERS is this window sill of L.O.F Vitrolite. Water or dirt do not harm this colorful glass.

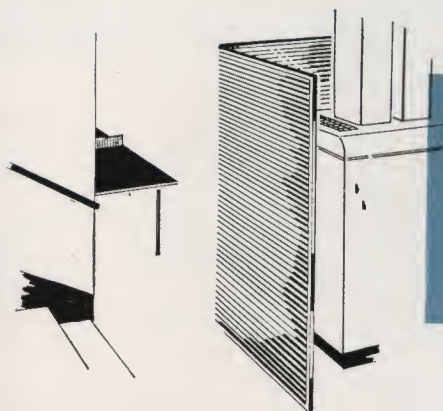


MORE FUN · · IN A ROOM  
THAT'S "PEPPED-UP"

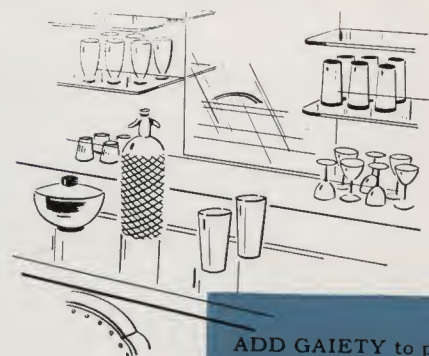
WITH **G**lass



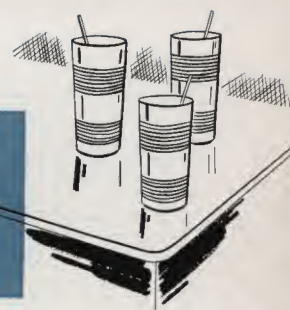
**FUN AND RECREATION** for your guests right next to your living room. This partition of fluted glass adds light and cheerfulness to two rooms, shuts off noise, and is decorative.



**DISGUISE THAT "BASE-MENT LOOK"** in your recreation room. Hide the furnace behind a good-looking screen of decorative glass. Noninflammable, of course.



**ADD GAIETY** to parties with a colorful Vitrolite bar. Defies scuff marks, spilled drinks, burning cigarettes . . . wipes clean.



**TABLE TOPS OF GLASS** can take it. For extra toughness, use Tuf-flex, the tempered glass.



**SHOW OFF** your cocktail glasses and clever knickknacks on clear, handsome glass shelves.



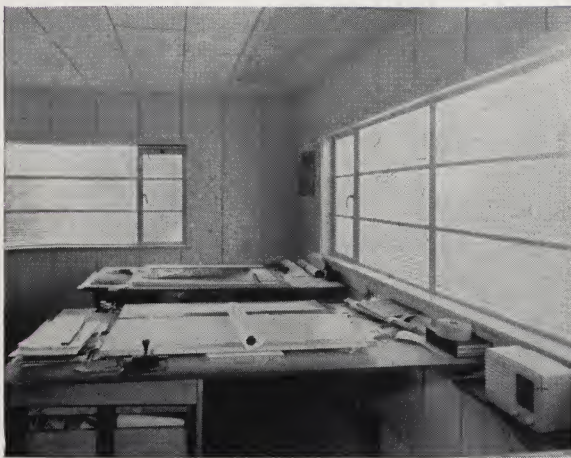
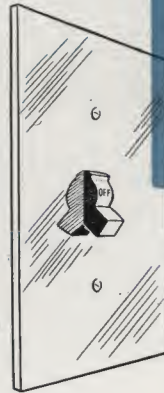
**ENJOY PRIVACY** and still have the cheerfulness of daylight, with windows of patterned glass.



# More Ideas

TO ADD THAT  
"CERTAIN SOMETHING"  
TO YOUR HOME  
WITH **G**lass

SMUDGES WIPE OFF with just the flick of a cloth when doors and walls are protected with glass plates . . . excellent for children's rooms.



FOR THE MAN WHO WORKS AT HOME, a room like this, with windows of translucent glass is ideal. Here he can have privacy, plus the cheerfulness of diffused daylight.

## HINTS ON CLEANING GLASS

● The enduring, sparkling surface of glass is one of its most decorative qualities. To keep it clean and bright with the greatest ease, it is recommended that you use a solvent cleaner with a soft, absorbent cloth. Many solvent cleaners for glass are sold at drug, grocery and hardware stores. Use them in preference to any cleaner that contains abrasive material.

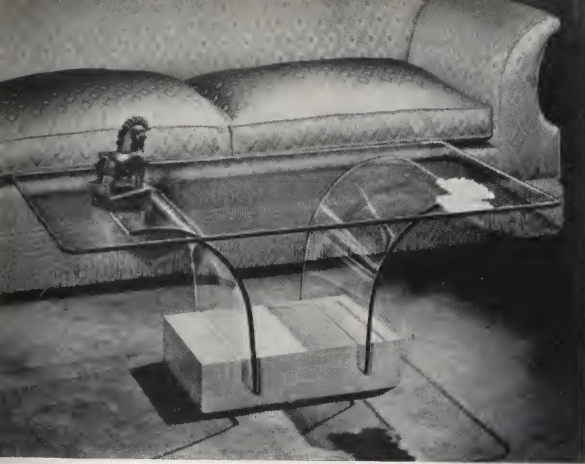
To remove hardened paint spots, first wash the glass thoroughly. Then use a new razor blade, cutting under the spot carefully. Do not cut with the corner of the blade.

To remove labels from glass, soak them thoroughly with a wet cloth first. Never use even the finest textured emery or sandpaper for this purpose.

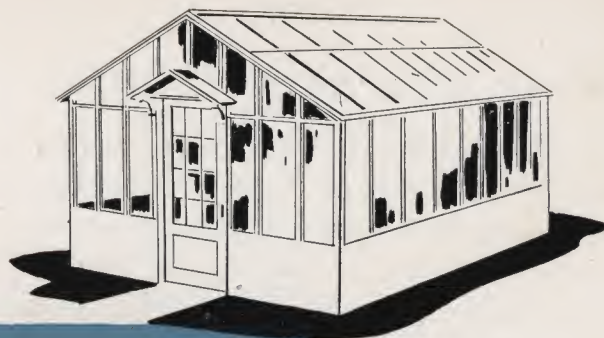


A SPECIAL BEAUTY SPOT for your home . . . a sun porch lined with thriving plants. Glass shelves take much of the muss and fuss out of flower growing. They won't stain, and a damp cloth wipes them clean in a jiffy. For protection from cold, make the windowpanes Thermopane, the L-O-F glass that insulates while letting the sun beam through.

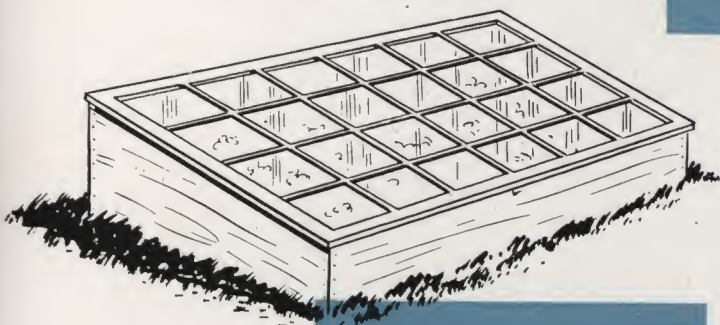




**DISTINCTIVELY MODERN** furniture of glass can enhance the beauty of your home. It's as sturdy as it is lovely.



**ENJOY FRESH VEGETABLES** at the table all year long, from your own miniature greenhouse.



**REAP EARLY DIVIDENDS** from your garden by toughening young flower and vegetable plants in a cold frame.



**A GLASS COVER** helps keep dirt and leaves out of basement window wells without shutting out light.



**A BIT OF GLITTER** for any room . . . a mirrored waste basket adds a decorative note.



**BRIGHTEN** the attic room with mirror panels along the sloped ceiling. It does double duty . . . reflects light from the window . . . adds a sparkling decorative note.



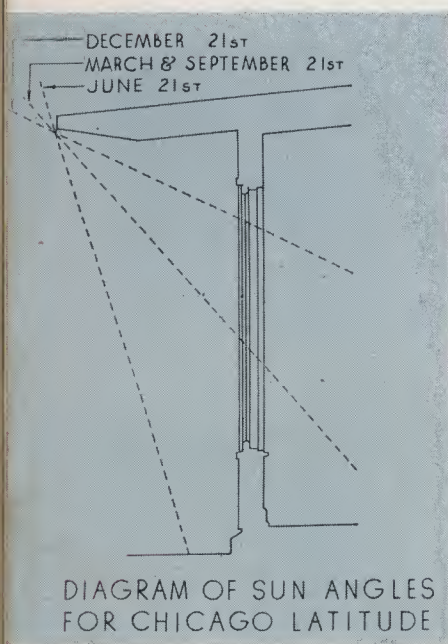
**INVITE SUNSHINE** all year long. A solarium provides a cheerful spot for play, work or study . . . aids convalescence. It's a grand place to grow plants.



## WHAT IS A SOLAR HOUSE?

A Solar House is any dwelling which permits the warming heat rays of the winter sun to penetrate large glass areas and supplement the normal heating system's functions, but, through its design, excludes the sun's rays in hot months. A Solar House can be any one of many types of architecture that give special attention to control and utilization of the sun's heat rays.

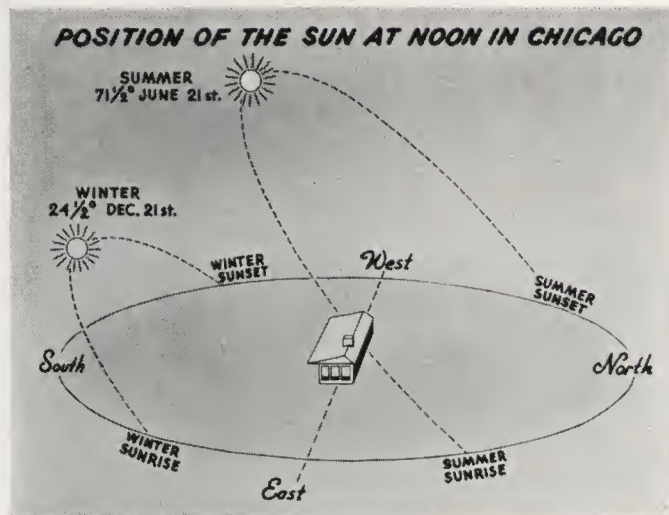
Generally speaking, a Solar House faces to the south. Such orientation permits more accurate control of the sun's rays—enables the owner to take full advantage of walls opened up with glass. These glass walls are able to *trap sun heat* once its rays have penetrated the glass, because their wave lengths are altered.



To utilize the sun's rays, some means of keeping out its excessive heat in summer and permitting its entrance in winter months is necessary. This diagram shows how the roof overhang or sun visor excludes direct sun rays from the house interior from June through August.

## NEW TRENDS TOWARD MORE ENJOYABLE LIVING WITH

# Solar Housing

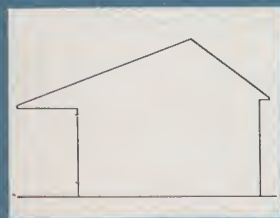


The above diagram explains the fundamental principle of utilizing the sun's heat rays in winter. At the left, the *lowered* path of the winter sun permits the rays to penetrate into the living quarters. Above is shown the sun's path in summer—high overhead—and the roof visor which keeps out the extra sun heat.

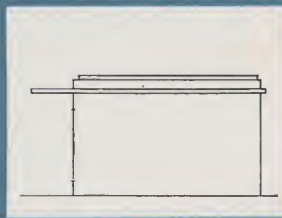
● In Solar Houses control of the sun rays is accomplished by a Sun Visor, roof overhang or some other physical means of shutting out the summer sun.

There are several types of roof extensions as indicated in the panel of sketches below. Their purpose is the same, whether a smartly tilted roof overhang, extended straight roof, or a framework of evenly spaced grilles:

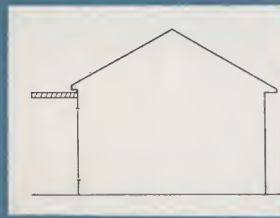
## TYPES OF SUN VISORS



In effect, a conventional porch employs the Solar principle of a visor. The roof line of this house is extended in order to shade the glass area in summer.

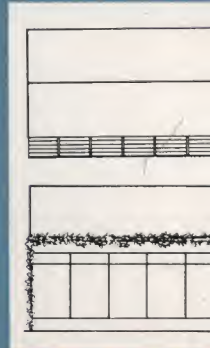


This built-up roof departs slightly from conventional hip-roof design. Note the extended visor which admits sun rays in cold seasons but precludes sun heat in summer.



Added to a conventionally-styled roof is this extended lattice-type visor. It frames a series of horizontal louvers, the angles of which exclude the summer sun.

(Above) Looking down on the lattice-type visor of the house at the left. (Below) Front view of this type of roof overhang, with vines that bar entrance of summer sun.



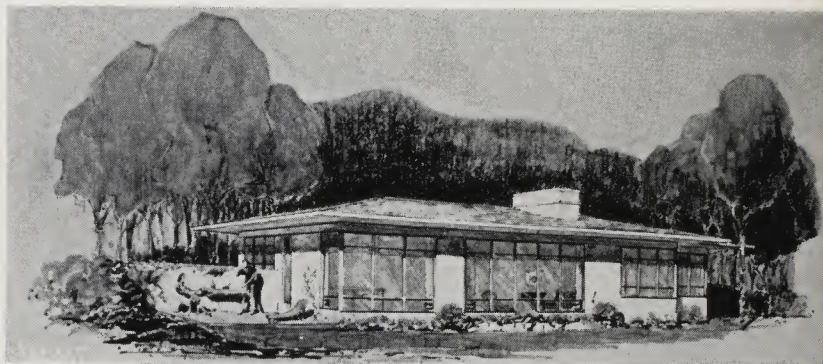


# Solar Housing

## OPENS UP HOUSE WALLS

● Regardless of the type of Sun Visor employed, any Solar House makes use of a broad expanse of glass through which the warming rays of the winter sun are transmitted. Obviously, ordinary glass would permit the escape of heat during hours of darkness, so most architects and builders employ Thermopane—the new Libbey-Owens-Ford insulating windowpane described on page 22.

(Right) This more conventional house design by Architect T. Y. Hewlett provides a modern wall of glass for southern exposure with an extension of the conventional roof line.



(Below) The sun wall of a Solar House designed by Architect George Fred Keck. Note the full expanse of glass in the southern exposure.



Actually, Thermopane makes possible a far greater use of glass than heretofore has been possible, due to its exceptional insulating property. By "opening up" the walls of a house, an entirely different atmosphere is created—a new trend toward more enjoyable living—which was first introduced in the original Solar Houses. No matter what design you may select for your home, you can have the benefit of a new, refreshing outlook on life by utilizing the Solar House principle with walls of insulating glass.

(Left) In this outstanding Solar House, large window areas on the southern exposure are supplemented by *clerestory windows*, near the ceiling. Architect, Arthur Purdy.



(Right) In this open-plan design, the huge Thermopane windows serve as a "wall of glass"—opening up the house to the year 'round beauty of outdoors.





# Thermopane

## NEW L·O·F INSULATING WINDOW PANE . . .

● Climaxing over fourteen years of research, L·O·F *Thermopane* is the first successful windowpane ever made with built-in insulation.

*Thermopane* is made of two or more panes of glass, separated by an insulating layer of dehydrated air, and sealed around the edges at the factory with a patented metal-to-glass bond — the *Bondermetic Seal*. This seal has successfully withstood a shearing force of over 1,000 pounds per

square inch—proof of its amazing strength.

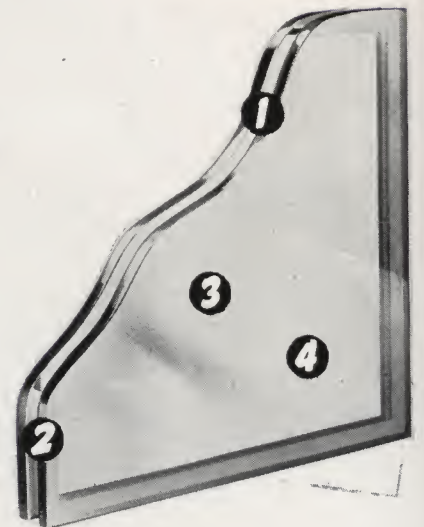
Until the advent of *Thermopane*, large window areas were generally conceded to be impractical in temperate and cold climates because of excessive heat losses. Because of its double-glass construction, *Thermopane* keeps homes warmer in winter and cooler in summer. In addition to reducing heating costs and providing savings in air conditioning, *Thermopane* deadens the transmission of outside noises.



Year 'round views like this are within the reach of everyone when *Thermopane* is used to glaze large Picture Windows. Architect Allan Wallsworth specified *Thermopane* to avoid steaming and frosting.

### FOUR IMPORTANT THERMOPANE FEATURES

- 1** Insulation against cold and heat to make living conditions more healthful and comfortable.
- 2** Patented *Bondermetic Seal* bonds the panes of glass into one unit to prevent dirt and moisture from entering the dry air space.
- 3** Clear vision is the result of higher room-side glass surface temperature and the dehydrated air sealed into the unit.
- 4** Easy to clean because, regardless of the number of panes in a unit, there are only two surfaces to clean.





MAKES PRACTICAL

# Larger Windows

WITHOUT EXCESSIVE HEAT LOSSES

● This picture demonstrates the insulating effectiveness of Thermopane. The center sash, which contains Thermopane, reveals a clear view of the outdoors—while the side windows, which contain single glass, are frosted over to the detriment of the view.



## THERMOPANE OPENS WALLS TO LIGHT AND VIEWS

● To create a charming year 'round view, Architect Julius Gregory planned this huge window—actually a glass wall—with Thermopane for protection against cold and heat.

## SPECIAL GLASSES IN THERMOPANE

● An outstanding advantage of L·O·F Thermopane is the fact that it can be fabricated with special purpose glasses. For instance, Heat Absorbing Plate Glass may be used in Thermopane to keep interiors cooler in summer; or Golden Plate, to protect against sun fading and create a soft, sunshiny tone for the interior. For unusual effects, some of the lighter shades of Colored Polished Plate Glass may be used.

On the other hand, Blue Ridge decorative patterned glasses may be fabricated in Thermo-

pane when complete or semiopacity is desired. Such patterned glasses as Doublex, Louvrex, Flutex, Stylex, Linex or other attractive figured glasses may be used to create special effects. In either case, the Thermopane unit is made exactly the same as when plate glass is used, and the results and savings are identical. If you're considering Thermopane made with these special glasses, your architect or your local Libbey-Owens-Ford Distributor will be glad to help in your plans.





# Window conditioning

FOR GREATER COMFORT  
FULL ECONOMY AND HEALTH

● Just as an individual needs additional clothing as protection against cold weather, so can homes benefit by Window Conditioning—the addition of Storm Sash. Government experts declare that from 25 to 30 per cent savings in fuel may be had by the addition of Storm Sash alone.



Conventional Storm Sash are inexpensive and effective against heat losses.



A metal-framed pane of glass, installed from inside a double-hung window retards heat escape.



Interchangeable Storm Sash and screens for casement windows assure greater satisfaction the year 'round.

● Complete Window Conditioning for your home will provide far greater comfort . . . will help eliminate floor drafts . . . and will help your pocketbook in fuel saved. Since heat always flows from a warm to a cold object, interior heat

in the house not fitted with extra sash passes to the outside cold winter air. Double-glass insulation keeps your heat *inside*. Investigate the savings and health advantages of double glass insulation,





# L·O·F

## POLISHED PLATE GLASS

● For fine Picture Windows and mirrors there is no substitute for Polished Plate Glass. This glass is ground and polished with the objective of making both sides flat and parallel, thus providing clear vision with a minimum of distortion. Picture Windows provide clear visibility when made of Polished Plate Glass. The extreme flatness of this glass is even more important in fine mirrors, for surface irregularities and distortion of regular glass are absent. This flatness and freedom from distortion are two of the reasons why Polished Plate Glass is invariably selected for display windows in stores and shops.



## L·O·F TUF-FLEX GLASS

● Tuf-flex Plate Glass, used extensively where glass is subjected to thermal and physical shock, as in the case of doors, display cases, etc., may be of interest to homeowners because of its greater

strength. Tuf-flex can be satisfactorily used for tables and other furniture tops and even in windows exposed to high wind pressures and temperature extremes.

## L·O·F HIGH-QUALITY WINDOW GLASS



● Libbey-Owens-Ford Window Glass is exceptionally clear, and has a natural fire-finished surface in which distortion is held to a minimum. It is made by an exclusive Flat Drawn Process which produces a clear, bright glass of unusual flatness. Due to the longer annealing process employed, L·O·F High-Quality Glass is less brittle, and can be cut much easier with less breakage. For windows, doors, storm sash, and in cabinet fronts and shelving, it has proved its merit. The well-known L·O·F Window Glass label is your guarantee of the best in window glass.





FOR COLORFUL, SANITARY  
FIRE-PROOF, EASY-TO-CLEAN WALLS

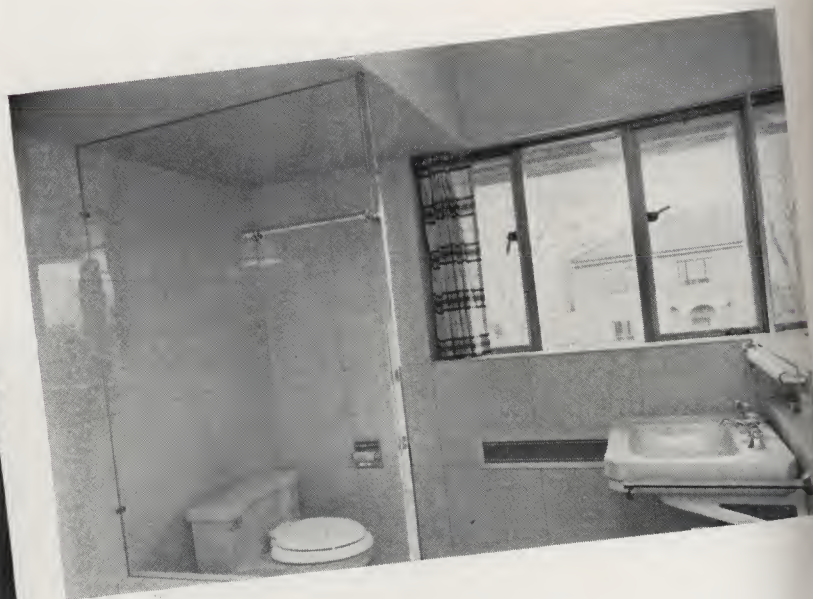
# Vitrolite

● No other interior-finish material is more suitable to the private home—particularly in bathroom and kitchen—than Vitrolite structural glass. Its highly polished surface is “smooth as glass” for it *is* glass! Vitrolite, while opaque, is available in a variety of

colors that lend themselves to any decorative scheme. It is unaffected by ordinary household acids and alkalis . . . resists scratching and marking, and is easily and quickly cleaned with the whisk of a damp cloth. Vitrolite never needs resurfacing.



Vitrolite is ideal for walls in bathrooms because it cleans so easily. Because of its nonporous surface, it provides no hiding place for germs . . . and is resistant to water and other liquids.



Smooth, sparkling and colorful, Vitrolite kitchen walls are easily cleaned . . . unaffected by moisture and odors. The smart appearance of these walls is a source of pride to any housewife.

## QUICKLY CLEANED WITH A DAMP CLOTH

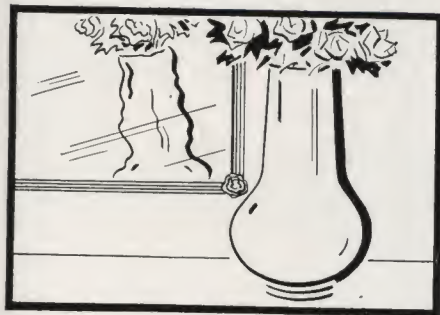
● The hard, smooth surface of Vitrolite makes it exceptionally easy to clean and keep clean. All that's needed is a quick once-over with a damp cloth or, if badly soil-

ed, washing with mild soap and water. Because of the many colors available, practically any color scheme can be worked out for kitchens and bathrooms.

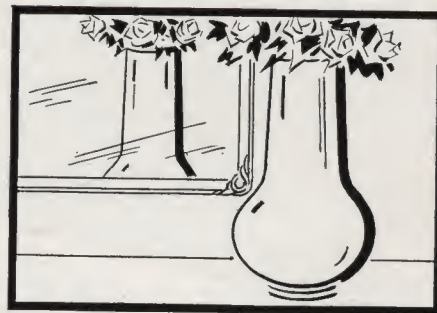




# THE BEST MIRRORS ARE MADE WITH L·O·F POLISHED PLATE GLASS



You can quickly check the quality of a mirror by noting the correctness of its reflections. At the left, inferior glass reflects irregular lines—causes distortion. At the right, a good mirror made with Polished Plate Glass has true reflections.



● The finer mirrors are always made of Polished Plate Glass because this kind of glass gives clearer, truer reflections and greater brilliance. At the left, an unframed mirror of L·O·F Polished Plate Glass provides sparkling clear reflections for the 'teen-age girl's room. While Libbey-Owens-Ford does not manufacture or sell mirrors of any kind, its high-quality Polished Plate Glass is used by many of the country's finer mirror manufacturers. Some homeowners and many specialty shops and department store owners prefer colored mirrors. Libbey-Owens-Ford makes Polished Plate Glass in a variety of colors. If you desire mirrors of colored plate glass, your local L·O·F Distributor, your architect or interior decorator will make color recommendations.

## THIS LABEL IS YOUR GUARANTEE OF TOP-QUALITY MIRRORS

● To protect the buyers of mirrors, Libbey-Owens-Ford has developed this Mirror Label. By agreement with mirror manufacturers using L·O·F Polished Plate Glass, this red, white and blue identification label appears on all such mirrors made with our glass. It is a symbol of protection. Whenever you buy a mirror, be sure that it bears this shield of quality, featured by better department and furniture stores everywhere.





# Decorative Glass

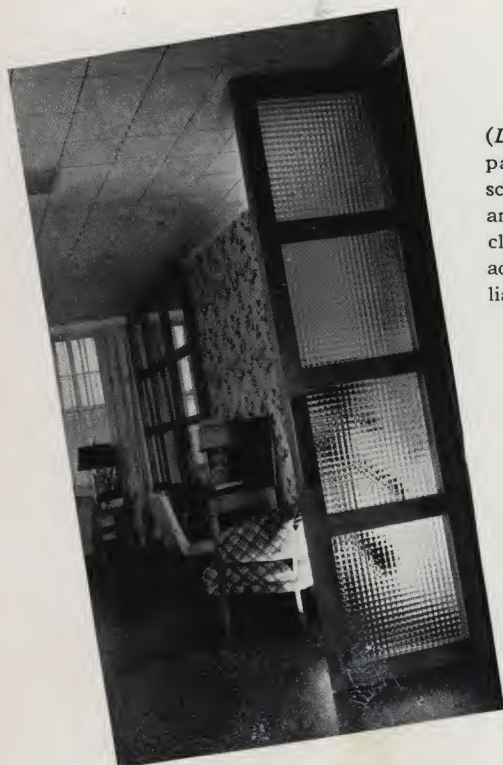
TO MAKE YOUR HOUSE  
BRIGHTER AND MORE

# Livable

● Lighter, brighter and more sparkling interiors are easily possible in homes of any price range through the use of Blue Ridge decorative glasses. These translucent glasses add character and quality to otherwise plain interiors. Whether used as screens to glaze windows against an undesirable view, or to transmit light to otherwise dark areas while adding a decorative touch, Blue Ridge figured glasses are entirely in keeping with an architect's or decorator's concept of beauty and utility.



Smartly patterned Blue Ridge Glass not only adds a touch of beauty but transmits light to this room.



(Left) Another use for patterned glass—as a screen to separate one area from another. Here clean Doublex is used, adding sparkle and brilliance to rooms.

(Right) Lighting experts have stressed the value of better illumination in the kitchen. Here's a trick to put light on the work surfaces where it's needed, by glazing with Doublex figured glass with Satinol finish.





## SEE YOUR ARCHITECT FOR BUILDING SATISFACTION



● There is no surer way for a homeowner to assure satisfaction for himself and his family than to employ a reliable architect.

Architectural services represent a guarantee to the homeowner of serviceable design, good workmanship and quality materials. An accredited architect is a specialist in his chosen field . . . knows building materials . . . recognizes quality and design

. . . and is familiar with local building practices. In home construction he is responsible to the home investor.

Libbey-Owens-Ford does not design homes or buildings, but we recommend that, before you build, you obtain the services of a competent architect to protect your investment and assure you top quality in materials and construction.

## SEE YOUR L · O · F DISTRIBUTOR FOR THE RIGHT KIND OF **Glass** FOR YOUR HOME

● Just as you depend on your hardware dealer as a source of supply for hardware items, so can you depend on your local Libbey-Owens-Ford Distributor for all kinds of flat glass items. He is acquainted with your architect . . . and your architect is acquainted with an L·O·F Distributor's product services. He will be glad to

offer suggestions . . . will show you samples of the specialty glasses which daily are becoming more important to good home construction. Regardless of the type of home you expect to build, feel free to consult your Libbey-Owens-Ford Distributor for any information or help you may need in selecting the right kind of glass.





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**Boston, Mass.** Hubbard 0100  
1437 Statler Building

**Buffalo, N. Y.** Cleve. 0291  
501 Jackson Building, 220 Delaware Ave.

**Chicago, Ill.** Central 2490  
120 S. LaSalle Street

**Cincinnati, O.** Cherry 5246  
1611 Carew Tower

**Cleveland, O.** Main 7134  
1152 Terminal Tower Building

**Dallas, Texas** Riverside 4026  
1402 Tower Petroleum Building

**Dayton, O.** Hemlock 7421  
1218 Third National Building

**Denver, Colo.** Tabor 8015  
414 Tramway Building

**Detroit, Mich.** Mad. 0080  
610 Fisher Building

**Indianapolis, Ind.** Franklin 1363  
724 Circle Tower

**Kansas City, Mo.** Victor 5360  
215 R. A. Long Building

**Los Angeles, Cal.** Michigan 0854  
905 Architects Building

**Memphis, Tenn.** 5-8225  
1015 Farnsworth Building

**Milwaukee, Wisc.** Hilltop 3110  
3121 N. 55th Street

**Minneapolis, Minn.** Geneva 5464  
506 Savings & Loan Building

**New York, N. Y.** Eld. 5-1025  
39th Floor General Electric Building

**Philadelphia, Pa.** Penny. 8666  
1528 Walnut Street

**Richmond, Va.** 3-3034  
1122 Mutual Assurance Society Building

**St. Louis, Mo.** Garfield 5541  
411 N. 7th Street

**San Francisco, Cal.** Sutter 4360  
812 Rialto Building

**Seattle, Wash.** Seneca 2513  
210 Lloyd Building

**Toledo, O.** Main 5291  
12th Floor Nicholas Building

**Washington, D. C.** Republic 4472  
1010 Shoreham Building



LIBBEY • OWENS • FORD  
GLASS COMPANY  
Toledo 3, Ohio  
Nicholas Building



# HOW TO BUILD SAFETY AND SECURITY INTO YOUR NEW HOME



Now that you've decided to build a home of your own, we want to help you make it what you want it to be — a refuge for your family where you can live in peace and comfort and safety.

Before you can achieve this dream of security, you should plan to **build safety into your home**. You should do this because an average of more than 32,500

persons are killed in American homes every year, and approximately 4,850,000 are injured — some 130,000 of them permanently. These accidents are fraught with untold personal tragedy and, in some cases, result in the loss of the home itself and all of the owner's savings.

To avoid a lifetime of regret, you should therefore plan to take these two steps now, while your home is in the blueprint stages: 1. **Danger-proof** your home against accidents and fires. 2. Make sure that you have adequate insurance, without loopholes or gaps in your coverages.

## STEP NO. 1 *Danger-Proofing* your new home

Thousands upon thousands of accidents might never have happened if the home-builder in his original plans had heeded the common design and structural dangers present in almost every dwelling. The fact that 16,200 people died in 1943 as a result of falls in homes proves that not enough attention is paid to making floors and stairways **safe**. A record of 7,550 deaths in homes due to burns, explosions, fires and poisonous gases in a single year shows that too little thought is given to the dangers lurking in doors, walls, stoves, and heating equipment. Faulty construction encourages the spread of fire or the release of poisonous gases. Many a seriously bumped head, cracked shin, gouged eye, or crushed finger can be traced directly to faulty design.

The fact that so many homes are not safe need not discourage you — unless yours is past the blueprint stage. Remember, these blueprints are your home on paper. They show every detail of construction, the heating system, the electrical wiring plan, the plumbing layout — the very things which will determine how safe you are going to be when you move in.

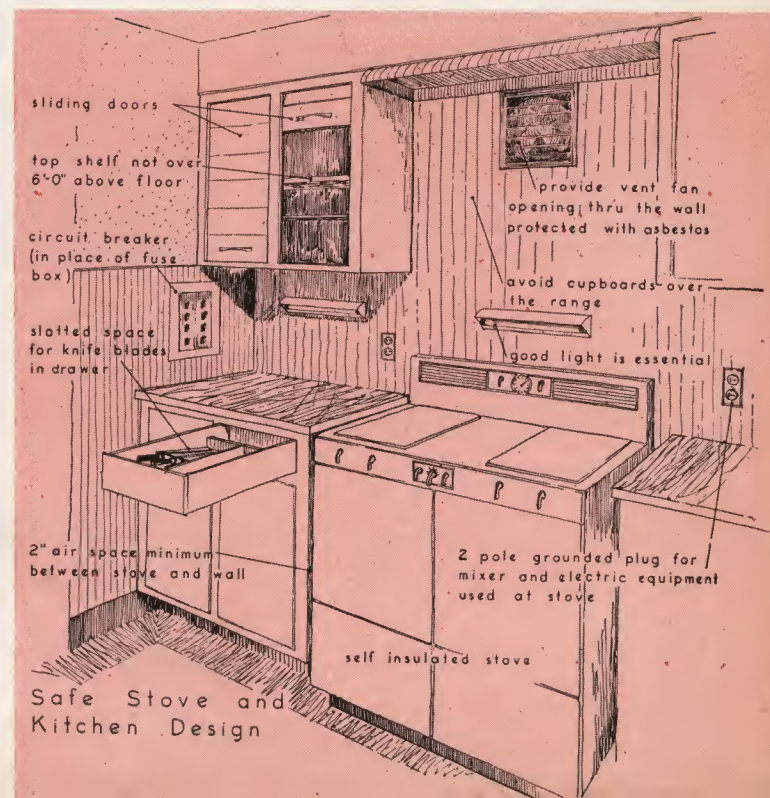
By giving some real thought to safety now, you can make sure you have eliminated from your blueprints the structural hazards which cause accidents and fires, and your home of the future will be as safe as it is possible for any home to be.

To help you do this, Liberty Mutual loss prevention engineers, working with a prominent architect, have prepared a book unlike any which has ever been written before. It shows how to **danger-proof** your home from attic to basement. Included are many detailed sketches like the one at the right.

What are the most important danger points in the kitchen and bathroom? How should a safe window be

constructed? A safe fireplace? A safe chimney? These and many other questions are answered fully, in order that your home may be the safe refuge you want it to be.

Send today for your copy of "*How to Danger-proof Your Home-to-be*." We will be glad to mail you a copy without obligation. Write to LIBERTY MUTUAL, 175 Berkeley Street, Boston 17, Mass.

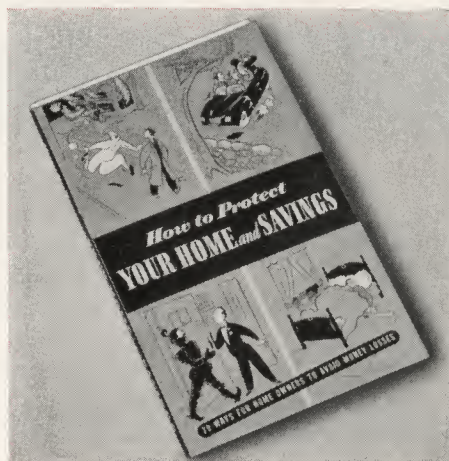




## STEP NO. 2 *Safeguarding yourself against loss of your*

Liberty Mutual "works to keep you safe" — by advising you about your hazards and possible causes of losses and recommending proper coverages — by making it possible for you to keep your insurance all together in one place and keep it up to date — by helping you to avoid accidents and fires — by helping you to avoid causing crippling injury or death to others — by providing skilled, friendly claims service which will help you over the rough spots of life.

*This is the only plan of its kind. It is designed by and for responsible home and car owners. It is used in whole or in part and endorsed by more than 340,000 people like you. It takes the red tape, the mystery and the "double talk" out of insurance. It makes insurance easy to understand—easy to keep track of—easy to pay for—all ready to work for you when trouble strikes.*



**EXPERT COUNSEL.** This 112-page book, with 20 amusing cartoon illustrations, will give you a clear understanding of just how insurance works to safeguard you against the loss of all the things you earn and own and cherish. Free — without any strings — to responsible home and car owners.



**YOU CAN PICK AND CHOOSE** exactly what you need and want in home and car insurance from this unique Hazard Chart — without any sales pressure. We will be glad to send you a copy, without the slightest obligation.

## *How one home owner saved \$27.07\* on his*

Here is how our plan worked for one policyholder who carried the kinds and amounts of insurance illustrated on this page: Initial rates charged by Liberty Mutual and United Mutual Fire Insurance Company were the same as those charged by most other liability and fire insurance organizations. Under our mutual plan the savings which we make by dealing direct with responsible property owners, are returned in dividends when policies expire. Dividend savings shown on this page are at current rates. Our dividends have never been less than 20%. Thus this policyholder saved \$27.07 on the cost of insurance which he carried with us last year.

*\*Your savings, of course, would have been more or less depending upon the value of your property and the kinds of coverage you carried. One policyholder, for example, who owns two homes and two cars, saved \$232.18 during the past three years.*



**AUTOMOBILE INSURANCE.** Protection against legal liability for injury or death of other persons except employees, and for damage to property of others; pays medical expense for injury to the owner and occupants of the car; also pays for loss or damage to the car except by collision.

Cost per year . . . . .	\$39.10
DIVIDEND SAVING . . . . .	7.82
Net Cost . . . . .	\$31.28



**FIRE INSURANCE,** written by United Mutual — protection against loss of or damage to home by fire, smoke, windstorm, hail, explosion, riot; also pays rent up to \$100 a month while your house is being rebuilt or repaired. Owner bought \$10,000 coverage for three years. His cost, averaged on an annual basis, was

Cost per year . . . . .	\$17.87
DIVIDEND SAVING, per year . . . . .	5.36
Net Cost . . . . .	\$12.51



# home and your savings . . .



**ANALYSIS OF COVERAGES AND SAVINGS.** This special wallet contains pockets for your policies, a record of your coverages, expiration dates, initial premiums and net costs after deducting our dividends at current rates — brings your personal insurance together in one place so you know exactly where you stand.

**FAIR CLAIMS** against you by others and your claims against us for damage to or loss of your property will be adjusted promptly and fairly. We will safeguard you against legal complications arising out of fraudulent claims. Liberty Mutual claims service is nationwide in scope.

**WE WILL WORK TO KEEP YOU and YOUR FAMILY SAFE** from getting hurt or killed. Based on our knowledge of accident causes and accident prevention, we will help you to live, drive and work safely. You will receive the results of our accident and fire prevention research — in booklets, posters, moving pictures and sound slide film.

## personal insurance . . .



**PERSONAL LIABILITY.** New comprehensive policy protects home owner and family against damage suits resulting from accidents suffered by guests, servants, tradesmen and others at the home or due to nonbusiness activities, including sports, away from home. Policyholder bought 3-year policy. His cost, averaged on an annual basis, was

**PERSONAL PROPERTY FLOATER,** written by United Mutual — protects at home or away from home, against damage or loss of belongings — including furniture, clothing, silver, jewels — by fire, storm, theft and practically every other cause. For \$4,000 coverage, \$25 deductible, for three years, the cost, averaged on an annual basis, was

**PERSONAL ACCIDENT** provides \$10,000 benefit for dismemberment or loss of sight; \$5,000 for loss of life; \$50 weekly for total disability; \$20 weekly for partial disability for 26 weeks; double indemnity for certain specified accidents; also surgical, hospital or nursing care — annual cost:

Cost per year . . . . .	\$8.33
DIVIDEND SAVING, per year . . . . .	1.66
Net Cost . . . . .	\$6.67

Cost per year . . . . .	\$19.66
DIVIDEND SAVING, per year . . . . .	3.93
Net Cost . . . . .	\$15.73

Cost per year . . . . .	\$41.50
DIVIDEND SAVING . . . . .	8.30
Net Cost . . . . .	\$33.20

### \* SUMMARY . . .

Average cost per year for this complete program . . . . .	\$126.46
Dividend savings per year estimated at current rates . . . . .	27.07
Estimated net cost per year . . . . .	\$ 99.39



# SO YOU CAN SLEEP AT NIGHT...

When you move into your new home, you do not want to wake up at night and wonder: "If I should have an automobile accident, would I lose my home, my savings, and my right to own and drive a car? What if someone stole my wife's fur coat? How much would I have to pay for surgical and hospital bills if I broke my leg? If the delivery boy should fall down my back steps, does my insurance protect me from damage suits?"

You can eliminate these and many other nagging worries if you have adequate liability and fire insurance.

You can do this with only five policies — and at surprisingly low cost. For a typical example, see the preceding page.

Our experts will check over your present policies to make sure you gain maximum advantage from all the latest improvements in insurance coverages — eliminate gaps in your present coverages — help you make all the possible savings to which you are entitled. Frankly, we are glad to do this **without cost or obligation** for this reason: If we can protect you fully at lower cost than other companies, we believe you will want to do business with us.

Remember: When you are "high-pressured" into buying a policy here and a policy there you will always have "hit-or-miss" insurance — and you will always pay more than you need to pay. Place the responsibility for your security on Liberty Mutual — **then you can sleep at night.**



*To Safeguard Your New Home, Fill Out and Mail This Coupon Today*

LIBERTY MUTUAL INSURANCE COMPANY  
175 Berkeley Street, Boston 17, Mass.

Please send me the following material:

☐ "How to **Danger-proof** Your Home-to-be" — a manual and check list filled with helpful hints on how to plan and build safety into your future home.

☐ "How to Protect Your Home and Savings" — profusely illustrated cloth bound book of 112 pages, which takes the mystery out of insurance; tells how you can secure complete, economical protection against serious financial loss in your new home.

Name .....

Address .....

☐ Check here if you want a Liberty Mutual expert to analyze your present insurance coverages and recommend the protection you need — without the slightest obligation to you.



# Monarch

## ELECTRIC RANGES

*Higher  
Cooking Efficiency  
for the  
Post-War  
Kitchen!*



**SIDE HEAT  
APPLICATION**

These cooking "miracles" performed in the Monarch Surface Oven are made possible by SIDE APPLICATION of heat—which is just another one of the many exclusive Monarch features which we will have to offer you as soon as Monarch Electric Ranges are again available.

Yes, you can even bake a cake in the Monarch Surface Oven.

A 2½ lb. whole chicken, or 5 lbs. of jointed chicken, can be roasted to a tender brown.

If "weenies" are preferred with sauerkraut, here's a clever way to do it.





# Monarch

ELECTRIC RANGES

## INDIVIDUAL DESIGN

The Monarch Electric "Roaster Range" Model LN157P, with one piece cooking top and flush back. Top equipped with three Dura-Glaz surface units in chrome pans, 2½ qt. "Deep-Heet" sauce pan and 10½ qt. "Side-Heet" roaster. Appliance receptacle in chrome grill in mantel, signal light and notifier in switch panel.

Large porcelain enamel insulated oven with illuminated dial temperature control, removable rack guides, automatic interior light, "Safety-Stop" sliding shelves, "Hi-Speed" units and smokeless porcelain broiler. Three utensil storage drawers. Light and condiment set above cooking top.



Always in the spotlight with individual model designs and exclusive features of proven merit. Monarch's complete line of full porcelain enamel electric ranges incorporates standard equipment as required for every type home. Fast, efficient heating units, accurate oven performance, and service-free operation.

Compact oven cooking with a minimum amount of fuel may be accomplished in this surface oven compartment. The 10½ qt. roaster oven permits preparation of roast meats and fowl and combination foods the same as usually prepared in the oven.



An aluminum trivet serves as a baking rack or cookie sheet, and may also be used as a lifter for small utensils. In this manner a variety of foods may be prepared at one time. By inverting the inset to form a high domed cover the capacity is increased for preparation of large fowl or whole hams.



## EXCLUSIVE FEATURES . . .

1 Two-Piece Porcelain Smokeless Broiler. Broiling may be a smokeless, greaseless operation with this two-piece porcelain enamel broiling pan. The slotted grill prevents heat from burning melted fat after it has dripped through into lower pan.

2 Monarch exclusive rigid bus bar assembly assures positive contact, full wattage to every unit, maximum carrying capacity at all terminals.

3 Monarch large capacity ovens are equipped with "safety-stop" oven racks which always remain rigid and secure when extended.

1—Inset Rim for Unit, Easily Cleaned.

2—Deep Drawn, Steel Unit Pan.

3—"Dura-Glaz" Vitrified Black Enamel Unit Finish.

4—Permanent Heat Deflector and Insulating Block.

5—Oversized Lead Wires to Switches.

6—Air-Cooled, Oversized Brass Terminal Bolts.

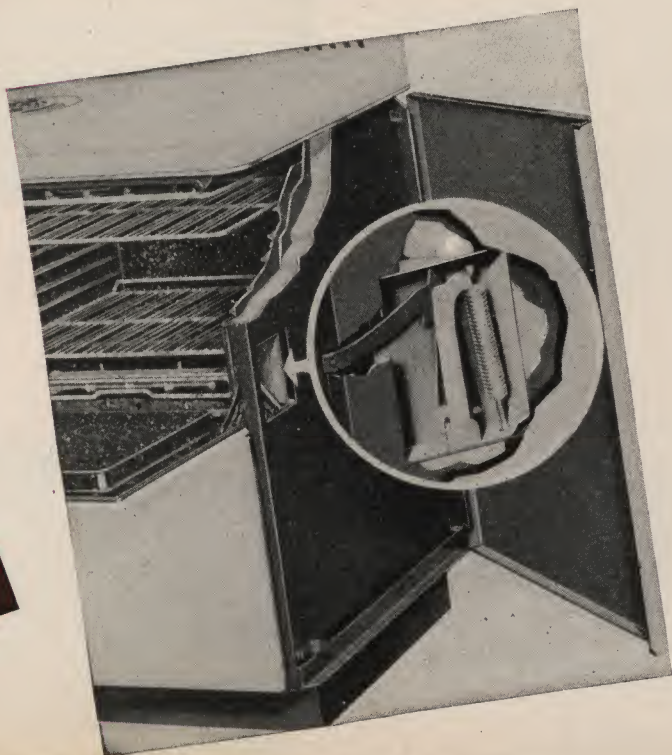
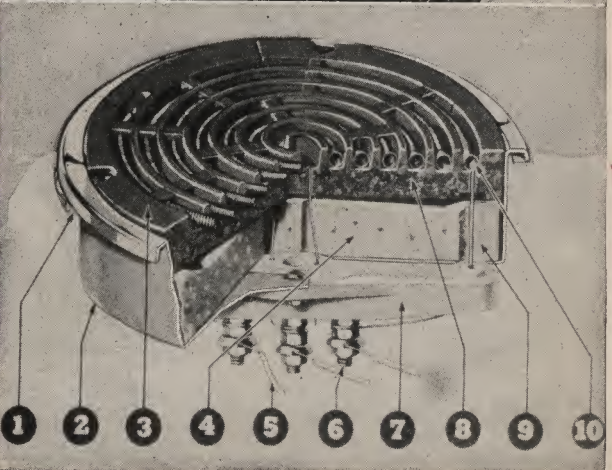
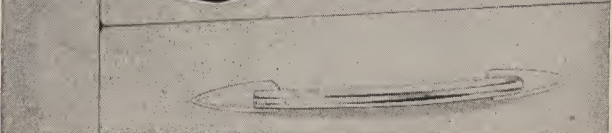
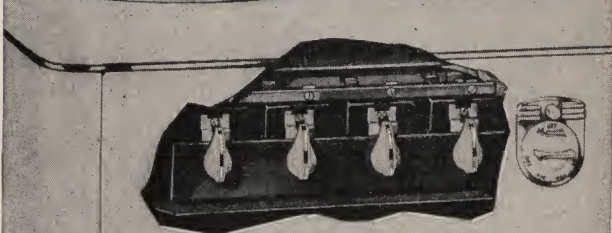
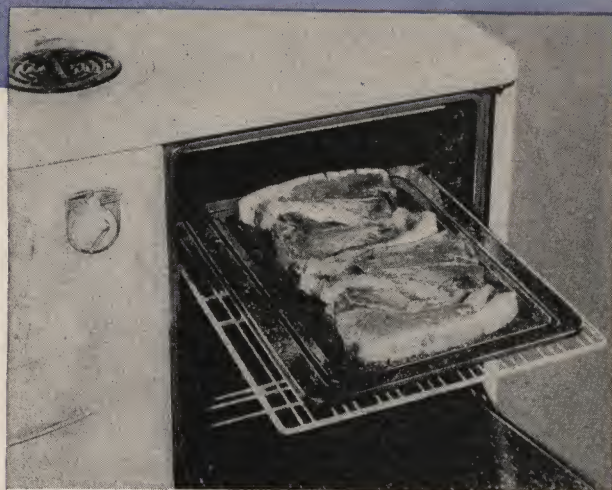
7—Heavy Porcelain Terminal Block.

8—Durable Heat Resisting Unit Porcelain.

9—Drain Holes for Boil Overs and Excess Moisture.

10—"Hi-Heat" Nichrome Resistance Coils.

5 MONARCH Five-Wall Oven Design Showing Removable Porcelain Armor and "Shur-Stop" Door Hinge Detail.





# Peace Plans for your kitchen

**DON'T PUT OFF FOREVER  
WHAT YOU CAN'T DO TODAY**



Limitations of MONARCH's peacetime merchandise production, fortunately, does not mean any rationing of home modernizing ideas nor of MONARCH's eagerness to serve you to the full extent of our ability. . . .

No sooner will our war job be finished than we shall return to fulltime production of kitchen equipment so widely acclaimed in the name of MONARCH.

If you were to write your very personal "peace plans" now, it's a ten to one chance you would begin by planning tomorrow's kitchen first. Not only does the kitchen claim many hours of every homemaker's day, but in these times of hurry-up breakfasts and lunches the whole family appreciates the convenience of eating many meals within its four cheerful walls, and you find evening guests often gravitating toward the kitchen in neighborly informality. Naturally, you want to be proud of your kitchen. And certainly every household owes it to the homemaker of the family to make her kitchen the most practical-working, spirit-lifting, step-sparing, time-saving, eye-appealing room in the house.

Because of this importance, a kitchen should not be hastily planned. Let your kitchen of the future be something to dream over now . . . something to visualize pleasantly.

Psychologists who have studied the role played by color in development of personality and mood have proven its importance to us all, whether or not we are conscious of its effect. Decide on the best color for your walls and ceiling; then blend into the setting the tones which

give you the most satisfied feeling of all's-rightness. For rooms so fortunate as to have sunny exposures, a combination of blues and greens, cool colors which complement the warmth of the sun, would be suitable. The yellows, oranges, and dubonnet tones lend a warmer note to a room with a north exposure, making up for the absence of sun's rays by their suggested warmth.

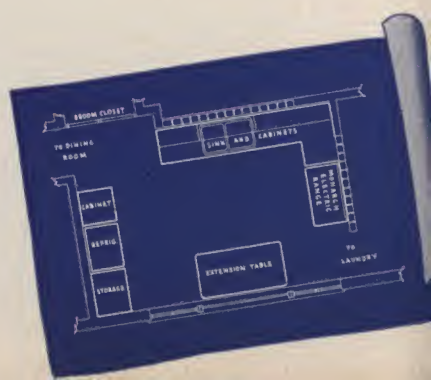
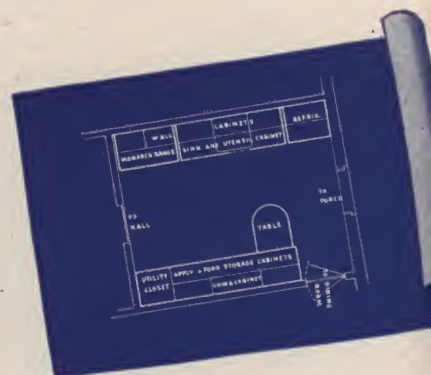
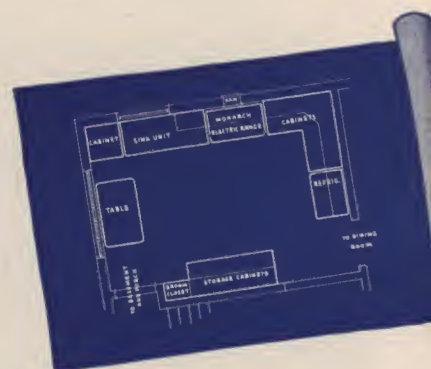
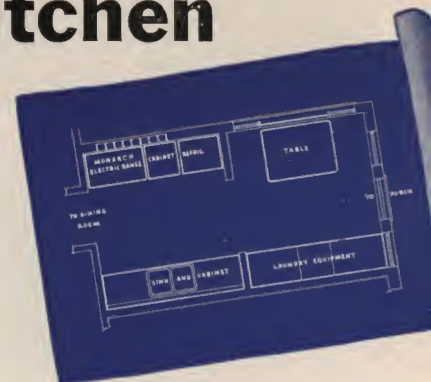
In choosing color, you will be not at all hampered by concern over the finish of permanent equipment such as refrigerator, range, and metal cabinets. These usually are white, so that no color you select in walls, painted furniture, and window decoration will be out of harmony. You are free to decorate with color to match your favorite china, or colored kitchen utensils . . . anything, in fact.

If you live in the city and consume a roll and coffee on the fly each morning, a breakfast bar or built-in eating nook may be the ultimate in kitchen convenience for you.

If your family is larger than four, a breakfast set is probably more practical than a nook, unless it be a nook corner with one side open for drawing up chairs.

If your family is large and you serve dinner at noon and a light supper at night, a sun room adjoining the dining room or kitchen may be equipped for serving breakfast or supper on a drop leaf table, which is out of the way during the day.

Somewhere between the extremes of kitchen spaciousness or compactness may lie your idea of the ideal kitchen. Until the happy day when your dream comes true, be as extravagant as you wish . . . on paper. Then when the time arrives to actually do the job, delete and pare down to suit your final expectations. Your early ideas will have seasoned and matured. You will know then exactly what you want. And MONARCH, with a background of "three generations of cooking progress," will be ready to help fulfill your fondest hopes for "Your kitchen of the future."



For further information write

**MALLEABLE IRON RANGE COMPANY**  
BEAVER DAM, WISCONSIN



1

Here is an example of the practical modern plan of placing laundry equipment on the main floor adjoining the kitchen. Cabinet type automatic washing machine, clothes drier and mangle may be purchased after the war for this type of installation, covered and out of the way when not in use. Washing and ironing may be done conveniently any time, any day of the week. Electric water heater may be installed so as to serve both kitchen and laundry.



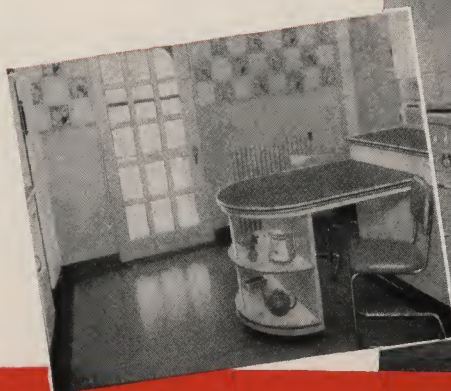
2

Here is a practical compact "L" shaped plan in which the sink, range, cabinet and refrigerator may all be reached with only a few steps. Adequate storage space for food and utensils has been provided in the cabinets above and below. Additional cabinet space for china, linen and glassware is available in a unit on the opposite wall (not shown). The doors to dining room and back porch are also on this opposite wall. The kitchen working space is therefore not interrupted by traffic between these doors. Ventilation is provided with a window over the sink and a fan over the range. Floor space approximately 10' x 14'.



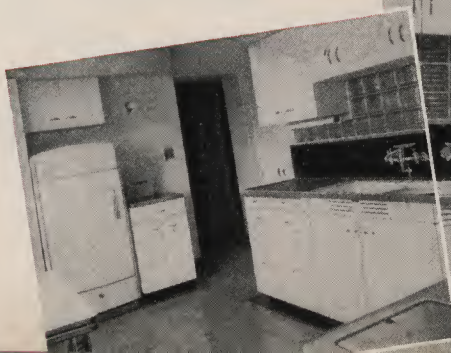
3

This kitchen was planned so as to concentrate all working equipment conveniently on one wall. Range, sink and refrigerator are "in-line" with adequate food and utensil storage space above. Opposite wall provides additional storage space for china, glassware and utensils. The breakfast table with loose chairs is built onto the end of these cabinets, adequate for two. The end wall opposite doorway from entrance hall is colorfully papered. Floor space approximately 9' x 11'. Color scheme—cream walls, ivory and blue linoleum and wall paper pattern, red accents on chairs and feature strip in linoleum.



4

The novel use of glass bricks is the outstanding feature in this kitchen plan. The floor to ceiling panel in back of range separates the kitchen from a main floor laundry room and also provides adequate light for both rooms. The strip of glass brick above sink is practical for daytime light and easily cleaned. The outside wall is fitted with a wide plate glass section between two casement windows. Radiators are concealed beneath sills the full width of windows.







# Monarch ELECTRIC

## WATER HEATERS

For the Convenience . . . Comfort . . . Health and  
Safety of every member of the family Electrically  
Heated Hot Water Service

Efficient, Space Saving, Table Top Height for  
compact modern kitchen installations. These new  
cabinet type heaters may be installed adjacent  
to kitchen cabinets or sink, producing additional  
working top surface. Durable, white, lacquer  
enamel finish, baked on heavy galvanized steel  
case, a rust-resisting and permanent protection.

### MONARCH WATER HEATER MODELS

WT30F, WT31F and WT32F—30 gallon capacity, Size 24"  
x 25", Height 36".

W40F—41 gallon capacity, Size 22" x 22", Height 59 $\frac{1}{4}$ ".  
W41F and W42F—40 gallon capacity, Size 22" x 22",  
Height 59 $\frac{1}{4}$ ".

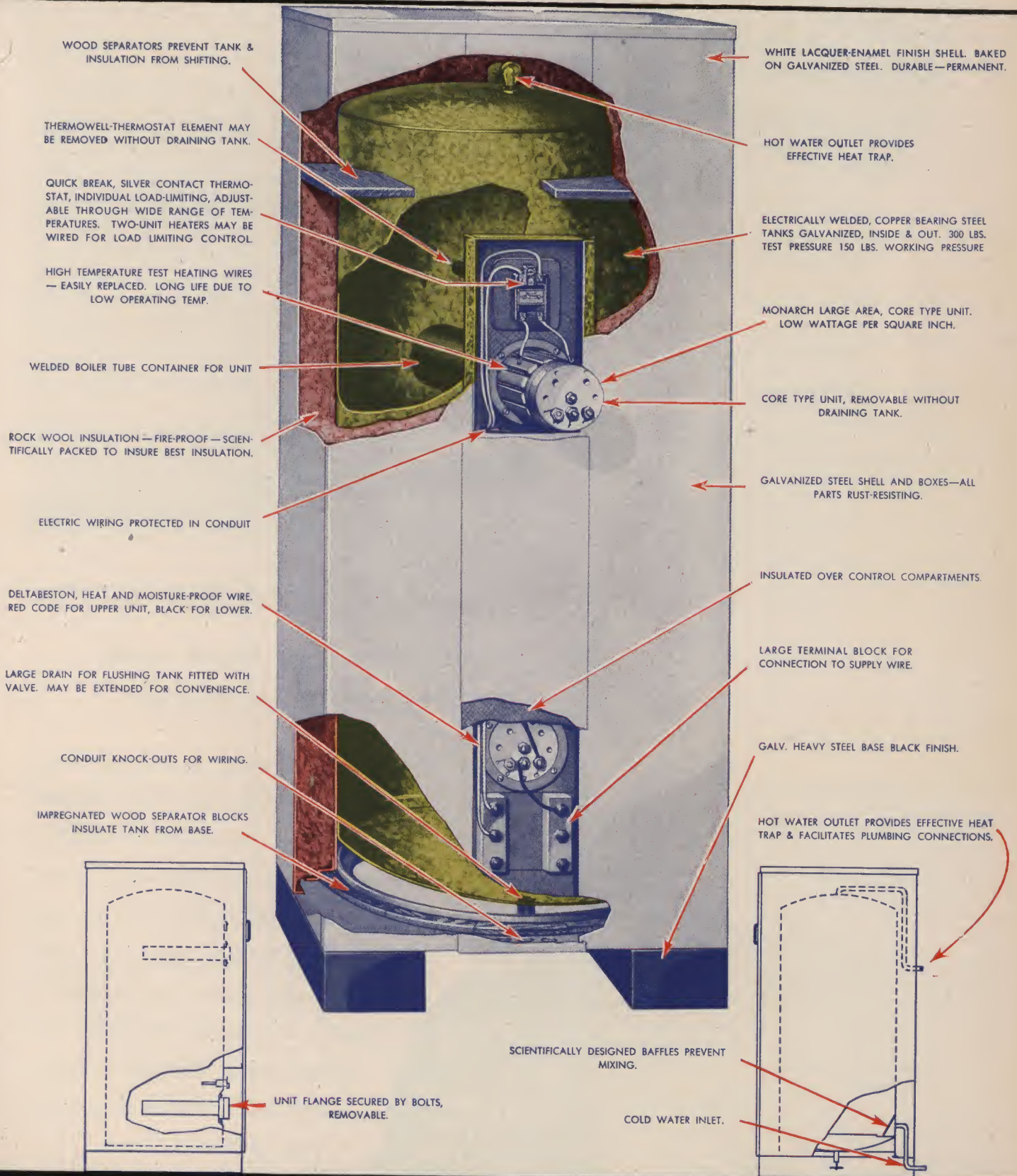
W50F—51 gallon capacity, Size 24" x 24", Height 58".  
W51F and W52F—50 gallon capacity, Size 24" x 24",  
Height 58".

*Manufactured by*

**MALLEABLE IRON RANGE COMPANY**

BEAVER DAM, WISCONSIN

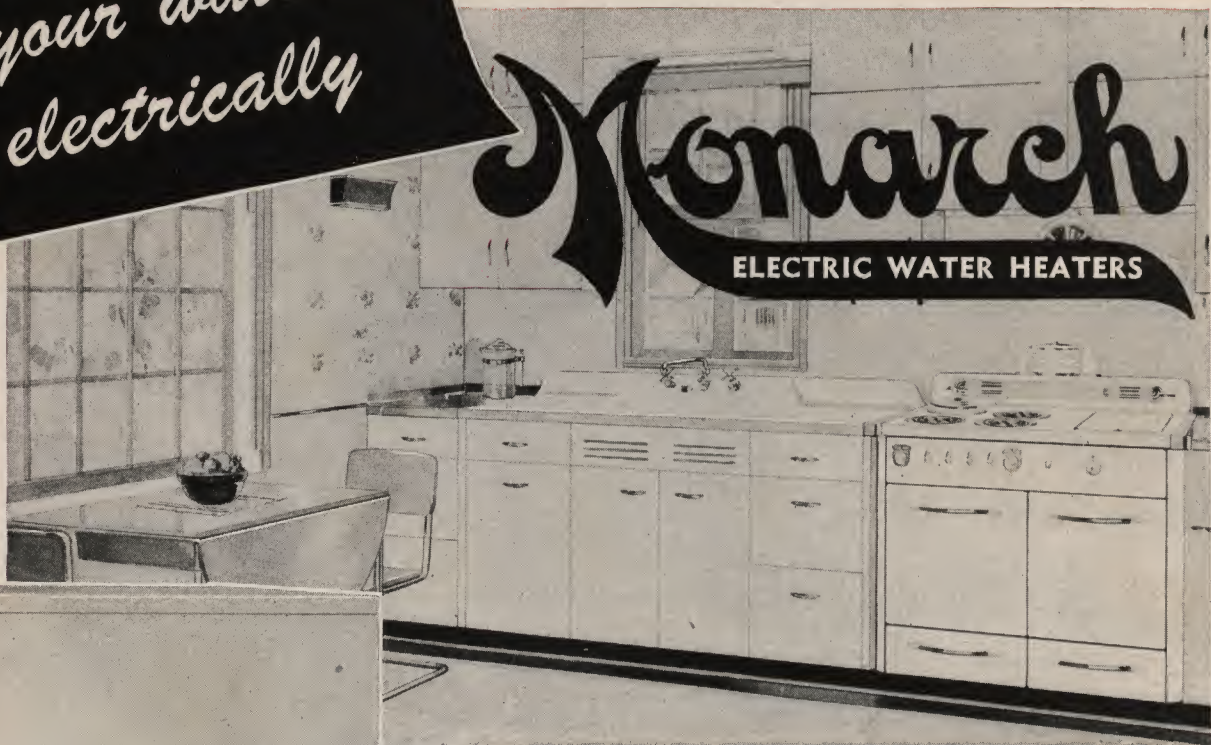






*Plan to heat  
your water  
electrically*

**Monarch**  
ELECTRIC WATER HEATERS

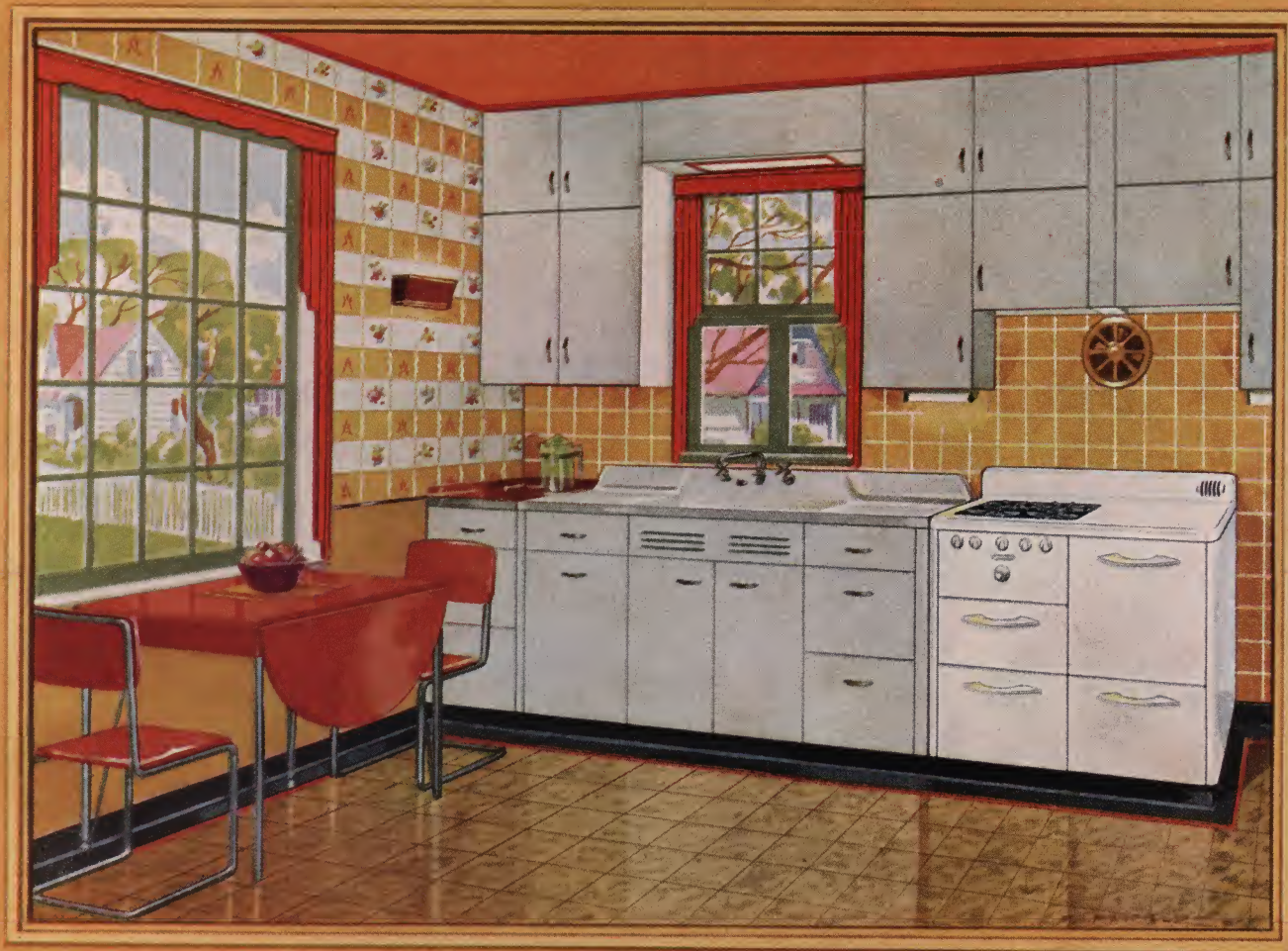


**ELECTRICALLY HEATED WATER**  
*goes hand in hand with*  
**ELECTRIC COOKERY**

Electrically heated water in the post-war kitchen will go hand-in-hand with electric cooking. It is clean, economical, dependable and practically service-free. You can install a Monarch Electric Water Heater and forget it. It's the most efficient and convenient method of maintaining an adequate hot water supply. Consider a Monarch Electric Water Heater for your post-war home.

*Every Wired  
Home Should  
Have an*  
**ELECTRIC  
WATER  
HEATER**





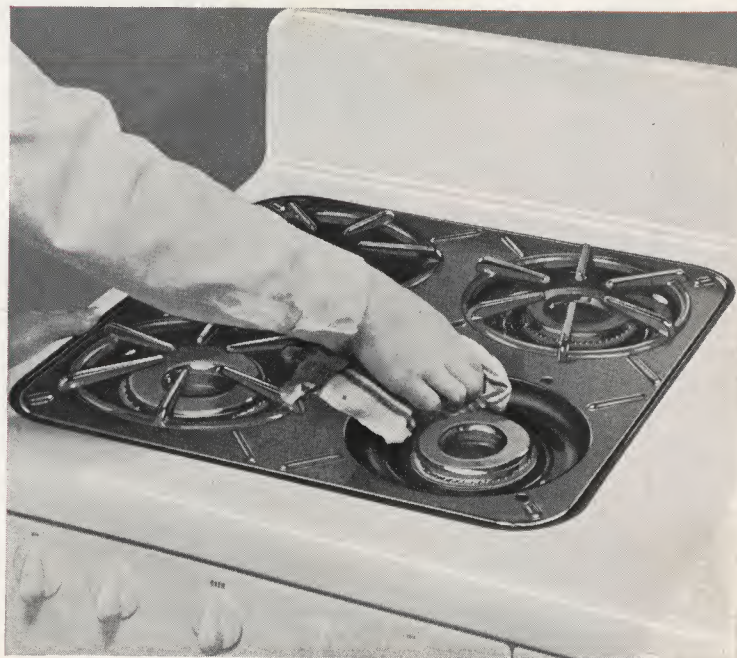
*A* **Monarch** MALLEABLE *built Masterpiece* **Paramount** MONARCH-BUILT

## "Hi-efficiency" Gas Ranges

Designed for the modern step-saving kitchen this product of the MONARCH factory incorporates a "Lo-temp" oven with an efficient "Hi-speed" cooking top and adequate utensil storage space. The entire range body is porcelain enamel, also the oven. The cooking top is one piece with flush back 38½" wide. The burners and burner pan have been designed for convenient cleaning, finished in black porcelain enamel. Three standard and one giant burner are equipped with two-position gas cocks and automatic lighter. For full details and specifications, see inside pages of this insert.

**MALLEABLE IRON RANGE  
COMPANY**

BEAVER DAM, WISCONSIN







Model No. 5J6 with oven control.  
Model No. 5J6S without oven control.

## *A Monarch built Masterpiece Paramount*

**MALLEABLE** **MONARCH-BUILT**

**SPECIFICATIONS** 16" oven conventional table top model with one-piece top and flush back. Top equipped with three standard and one giant "Hi-efficiency" burners with two position gas cocks and automatic lighter. Large one-piece, round cornered, porcelain enamel, insulated, "Lo-temp" oven with "Safety-Stop" sliding shelves on removable rack guides, two utensil drawers, Safety "Lock-type" oven gas cock, Smokeless broiler pan. Full porcelain enamel exterior finish with white trimmings.

Drip pan below cooking top is located behind upper utensil drawer.

### Dimensions

Overall Length .....38½"  
Overall Depth .....24¼"  
Overall Height .....41"

Cooking Top .....38½ x 22½"  
Cooking Top Height .....36"  
Bake Oven .....16x16x19½"

Broiling Compartment 14x17¾x6"  
Shipping Weight .....276 lbs.



# Ask for a demonstration of the 10 point **Paramount** Oven

MONARCH-BUILT

- 1 Large capacity—16" x 16" x 19½"—will accommodate eight standard bread pans, large roaster.
- 2 All porcelain enamel exterior, oven linings and cooking top parts, all easily cleaned.
- 3 Rounded corners, do not hold grease. Entire range designed for simplified care.
- 4 Heavy, effective insulation, conserves heat, assures "speed with economy" in oven operation.
- 5 "Lo-temp" operation, economical of food and fuel, as recommended by Home Economists.
- 6 "Safety-Stop" sliding shelves, rigid when extended, assures safe handling of oven utensils.
- 7 Removable enameled rack guides, simplify cleaning of these difficult to reach parts.
- 8 Safety, "Lock-type" oven gas cock, cannot be turned on accidentally.
- 9 Smokeless Drop Front Broiler, convenient and safe drawer type operation.
- 10 A MONARCH-BUILT proven design, durable and modern, backed with three generations of range building experience.







**Paramount**  
MONARCH-BUILT

## "H" Type Gas Range Model H3J6

*Specify PH3J6 for Propane or Bottle Gas*

A Combination range with built-in kitchen heater for homes requiring heat in the kitchen, a refuse burner or auxiliary water-heating equipment.

### SPECIFICATIONS

16" Oven range with built-in circulating heater. Cooking top equipped with porcelain enamel "Hi-Efficiency" burners and automatic lighter, and one "Hi-Lo-Reflex" burner with two position gas cock.

Porcelain enamel, insulated oven with "M7" Wilcolator control, conveniently located safety oven lighter, and "Safety-Stop" sliding shelves. "In-a-Drawer" drop front broiler with one piece porcelain pan.

Heater equipped with duplex grates for burning coal or wood, large ash pan, malleable iron anchor plate and lids, deep return back flue, circulating heat side flues vented at top, one piece porcelain door front. Full porcelain enamel exterior finish with white plastic trim. Brick firebox linings.

### DIMENSIONS

Overall Length .....	38½"	Cooking Top, Height .....	36"
Overall Depth, including flue collar .....	30"	Bake Oven—Gross 4144 Cu. Inches.....	16x14x18½"
Overall Height .....	47"	Net 3744 Cu. Inches, deducting for baffle	
Cooking Top, Gas .....	23½x22½"	Broiler .....	14x6x18"
Cooking Top, Heater .....	15x22½"		

Another MONARCH-BUILT Cooking Device

*Manufactured by*

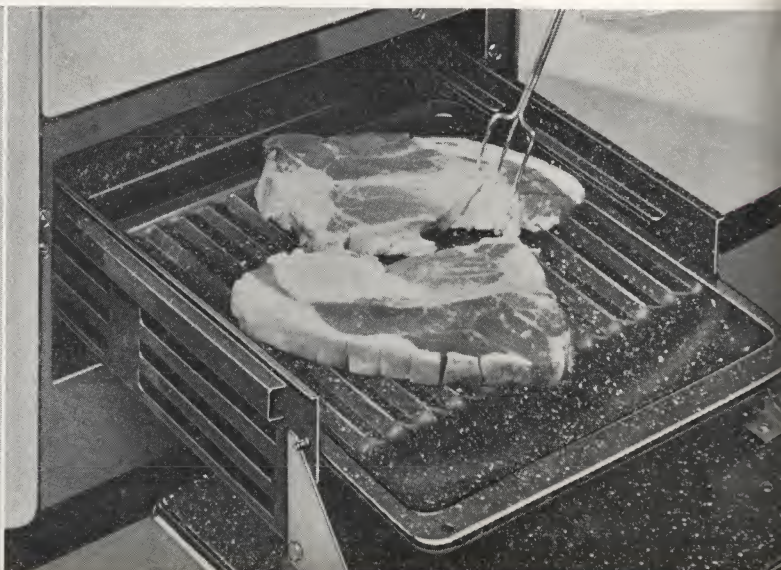
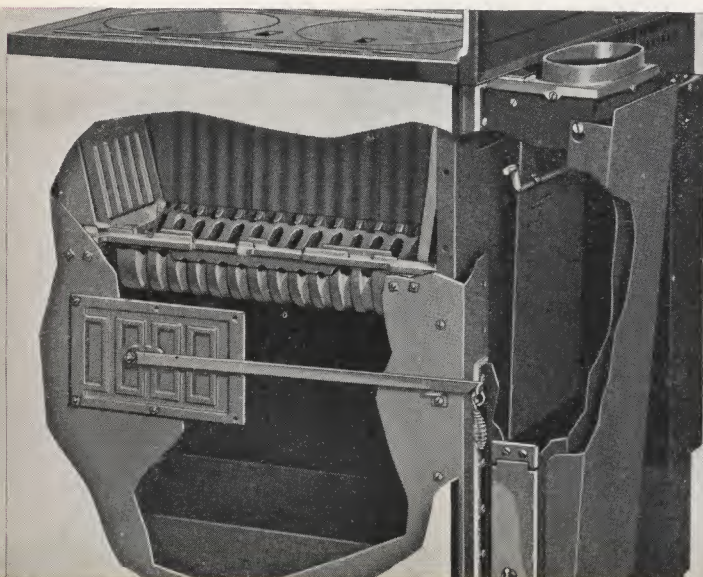
**MALLEABLE IRON RANGE COMPANY**

**3000 Lake Street - - - - Beaver Dam, Wisconsin**

HOC 536

*Detail of Deep Return Flue as Featured on all Paramount "H" Type Gas Range Models*

*Convenient, Drop-Front, Drawer Type Broiler with Smokeless Grease Trough in Front of Pan.*







## *Today's Monarch Malleable Ranges*

THE APPROVED **Monarch** NOW AVAILABLE  
MALLEABLE  
IS TRULY A KITCHEN MODERNIZER

"Glass-Lined" and fully equipped, these full sized Porcelain Enamel ranges are consistent with MONARCH quality now famous for over three generations. Durable malleable iron construction is STILL featured although concealed beneath these beautiful modern designs. Economical operation is STILL assured with efficient firebox operation, quick heating tops and dependable ovens. With over three generations of range building experience MONARCH is still progressing.



# HERE ARE THE MANY FEATURES FOR WHICH *they are all available today in modern*

Large smooth cooking top, consisting of solid plates and lids over firebox, of quick heating malleable. New, extra large oven, 19" wide, 15" high, 21" deep. Unbreakable malleable iron cooking top and frame. Beautiful "Gun Metal," Mirco Process Finish on cooking top, a protection against rust. Patented Duplex Draft control, Duplex Grates and Dust tight front on firebox. "Glass-Lined," rust resisting flues and oven walls. Full Porcelain enamel finish on all exterior armor. Flush, four-piece front with rounded corners. Modern "Toe Space" cabinet base, inset front and ends. Large capacity reservoir or waterfront in firebox, optional. Concealed, positive action oven door catch.

Famous MONARCH four wall body construction featuring Vitrified "Glass-Lined" Oven Walls and Flues.



798FMYZ with reservoir

FAMOUS  
FOUR WALL  
CONSTRUCTION

WELDED &  
RIVETED OVEN  
FRONT FRAME

EXTRA LARGE  
OVEN PROTECTED  
AGAINST RUST

TRIPLE COAT  
PORCELAIN  
ENAMEL ARMOR

CONVENIENT  
CLEANOUT

Cutaway view showing the many features incorporated in MONARCHS 4 wall body.

## Specifications

Number	Equipment
798FMYZ	With Reservoir
798 PMYZ	With Waterfront
798XMYZ	Without Waterfront or Reservoir

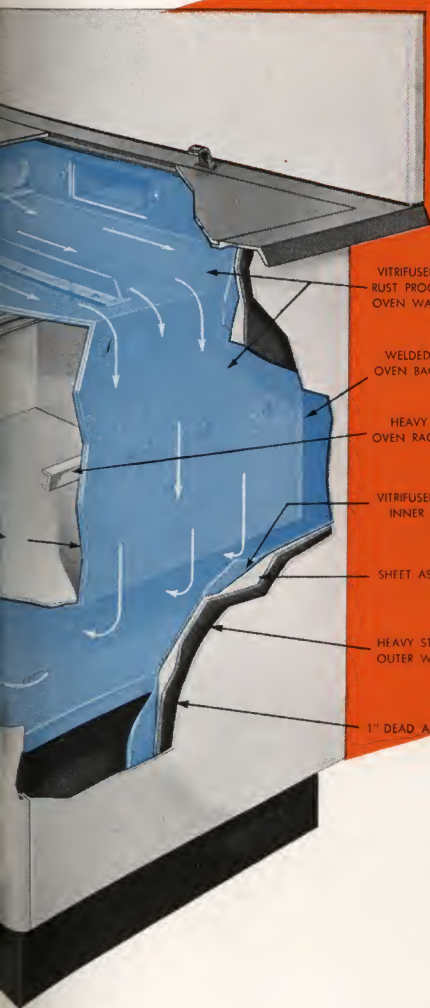
All ranges of this series are equipped with two 8" top Mirco Process finished, 25" x 43". Oven 19" wide. Cooking top height 34".





# RANGES HAVE BECOME FAMOUS

*models designed for efficient farm home kitchens*



VITRIFIED  
RUST PROOF  
OVEN WALL

WELDED  
OVEN BACK

HEAVY RIVETED  
OVEN RACK SUPPORT

VITRIFIED STEEL  
INNER WALL

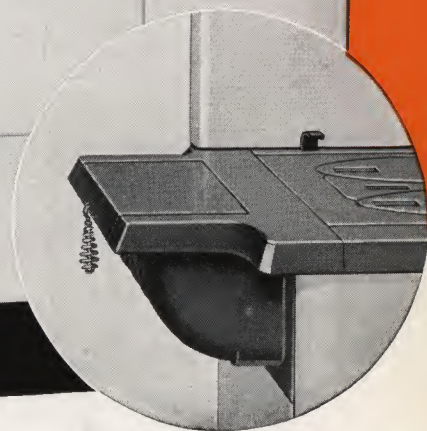
SHEET ASBESTOS

HEAVY STEEL  
OUTER WALL

1" DEAD AIR SPACE



798CMYZ with built-in pouch feed



798CXMYZ with extended  
pouch feed

Ranges of these series are standard MONARCH Malleable Four-Wall Construction Full Porcelain Enamel Finish. Balanced Design of Series 798, embodies a concealed Reservoir or a Warming Compartment and a Room Heater feature on right end. Cold air enters the lower right end of range body. Heated air passes off at rear range. Waterfront in firebox optional. 798C Series offer pouchfed equipment.

Other standard features are: Vitrified "Glass-Lined" Rust-Resisting Flues; Mirco Processed Malleable Iron Polished Lids, Anchor Plates and top Frame; Patent Level Oven Bottom, Aluminum Finish; Dust-Tight Firebox front; Duplex Draft Control and Duplex Grates; Concealed, Positive-Catch Door Handle; Inset Toe Space Cabinet Base. Finished in Full White Porcelain Enamel. This durable Porcelain enamel is an armor applied to the standard quality one piece steel body. Firebox equipped with linings and duplex grates especially designed for coal or wood . . . We are cooperating with the government in eliminating all bright parts on range trimmings.

## Series

Weight	Code Word
457	Credo
480	Crump
478	Cure

and two solid plates. Full malleable  
5" high, 21" deep. Overall height 46".  
inlet 12".

## Specifications 798C Series

Number	Equipment	Weight	Code Word
798CMYZ	With Reservoir and Builtin Pouch Feed	476	Cabin
798CXMYZ	With Reservoir and Extended Pouch Feed	492	Crepe





## COAL-WOOD RANGES

Models 478XYB and 478PYB

4-Wall Construction

### SPECIFICATIONS

These Square range models with or without waterfront, with 5" mantle are equipped with: Pressed steel, Mirco finished one piece top frame over angle iron with malleable iron lids and anchor plates. Rounded flush body ends.

Full white porcelain enamel finish with plastic trim. Insulated oven door.

MODEL 478XYB without waterfront.

MODEL 478PYB with waterfront.



### DIMENSIONS

Length .....	30 $\frac{1}{2}$ "	Cooking Top.....	30 $\frac{1}{2}$ "x22"
Overall Height .....	39"	Cooking Top Height.....	34"
Oven.....	17"x15"x21"		

The Original MONARCH "Stay-Satisfactory" Product Still Famous for its History Making Record.

*Manufactured by*

**MALLEABLE IRON RANGE COMPANY**

3000 Lake Street - - - Beaver Dam, Wisconsin



YOU DON'T HAVE TO HUG A

**Monarch**  
MALLEABLE

An abundance of uniform heat, easily controlled, to bring comfort to every room in your home.

MONARCH Super-heaters have been designed for modern house heating. This "two-in-one" coal-wood heater may be operated for direct heat for one room or as a circulator for distributing uniform heat to every corner of living room and adjoining rooms of your home. A new heat producing and fuel conserving principle of operation burns the gases, prevents excessive stack loss and controls the fire. Here is the answer to the present day need for a compact heating device, especially adaptable to one floor homes and apartments, store buildings, recreation and lodge rooms, garages and small shops.

*"Another MONARCH BUILT heating device for tomorrow's homes"*









# MONARCH SUPER-HEATER NO. 219B



Compactly designed and encased in attractive brown porcelain enamel shell, this Monarch Super-Heater will harmonize with modern living room furnishings and provide efficient home heating for comfortable living.

Duplex-draft control assures maximum heat from fuel burned. Heat is pocketed and rotated in the heating chamber above fire bed, reducing stack loss, unifying heated area over which room air is circulated and reheated.

Down draft flues on each side of heating compartment direct fresh air over top of fire, mixes with the gases from burning fuel, reduces fuel consumption, increases combustion and circulates the heat in dome of heater. Hot-blast type firebrick liners also assure maximum heat from fuel bed and reduces ash. (Patent applied for)



Cutaway View of Heater  
with Outer Cabinet Removed

## Specifications

Width	26"	Firepot	19" x 9 1/2"
Depth	18"	Fire Door	14 1/4" x 10 3/4"
Height	44"	Firebrick lining weight	96 1/2 lbs.
Overall depth to flue connection			28"
Weight of heater			307 lbs.

**MALLEABLE IRON RANGE CO.**  
**BEAVER DAM, WISCONSIN**



# Monarch's

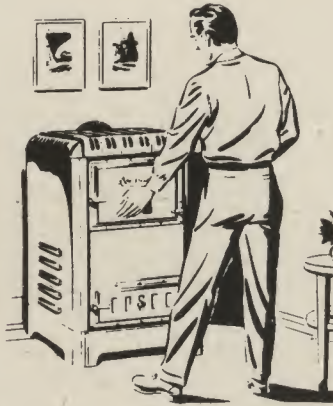
## RADIANT-CIRCULATOR

219 B

MONARCH'S "Super-heater" is a combination radiant circulator and an outstanding development for burning solid fuels of all types. With low fire the hot blast from front and rear of firebox liners operates most efficiently. When the magazine is filled to capacity the duplex drafts from above introduce oxygen to top of fuel bed and burns the gases regardless of type of fuel used. The heater has a cast iron top, reinforced and vented. The firebrick sides do not line the wall to the extreme top, allowing the heat to

penetrate through the 16 gauge steel body which is protected with rust resisting "mirco process" finish. A fire may be held for 24 to 26 hours with bituminous or anthracite coal. The large feed door and reversible grates make it an efficient wood burner also.

Exterior finish is a beautiful walnut brown porcelain enamel. Free from dust catching ornamentation this modern heater design will harmonize with living room furnishings and decorations.



With doors open you have Direct Radiant Heat when desired.



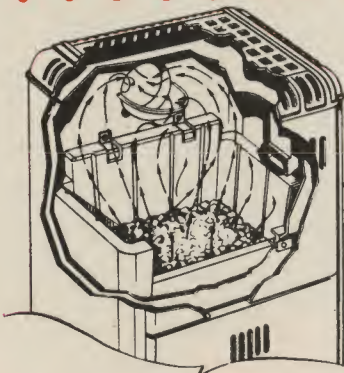
With doors closed you have a Circulator Heater assuring warm floors.



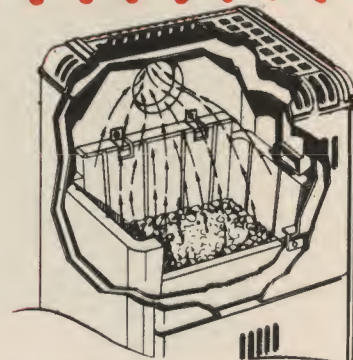
TOP FEED MAGAZINE TYPE HEATERS cause an annual cleaning and redecorating expense of approximately \$40.00 due to escaping soot and smoke when refueling.



FRONT FEED MAGAZINE TYPE—This convenient firing opening equipped with efficient smoke apron not only simplifies refueling but will also save the cost of the heater in two years in cleanliness.



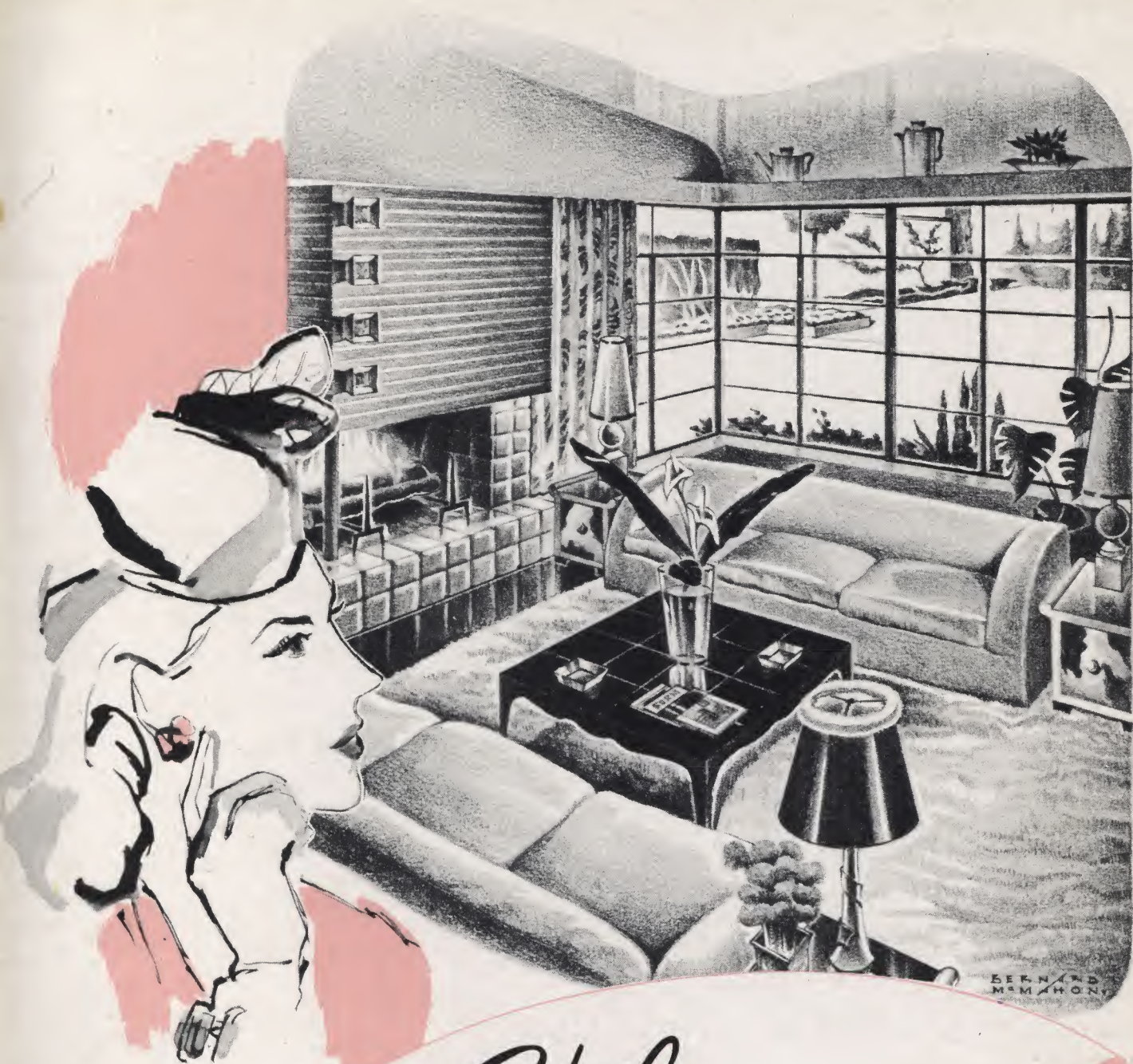
Indirect flue design acts as a reliable fuel saver in retaining heat and in reducing stack loss.



Direct draft flues allow direct escape of heat and stack loss.

ANOTHER **Monarch** TWIN EFFICIENCY ACHIEVEMENT





*Style*  
and enduring beauty begin with  
*Mesker* STEEL WINDOWS





# The Importance of Mesker Steel Windows

## . . . IN YOUR NEW HOME

Your new home is going to be one of the most important adventures of your life. Naturally, you'll want it to reflect your love of style, beauty and gracious living. And so you will come to recognize the significance of using Mesker Steel Windows throughout.

As you are well aware, nothing will accent the charm of your new home so much as *lovely* windows. They will not only add exterior beauty and distinction, but will provide the basis for beautiful interior treatments. You know, too, that nothing will obscure your home's beauty, or so quickly out-mode it as "clumsy, difficult-to-dramatize" windows. There is no danger of "aging" your home with Mesker Steel Windows. Their grace is enduring and will make yours not only a pace-setting home today, but a pace-setting home *tomorrow*. This is very important in the event that you should decide to sell it sometime in the future. Because your "Mesker-Windowed" home will be just as stylish and

attractive in years to come as the day it was built . . . its resale value will, therefore, be tremendously enhanced.

There are other advantages that make Mesker Steel Windows indispensable "musts" for your new home. The way they frame broad views of the outdoors, make beautiful four-seasonal scenes a part of interior loveliness . . . seem to add many feet to the original dimensions of your rooms, giving them added spaciousness. The way their varying shapes and sizes lend themselves to unusual combinations, affording you unlimited possibilities for a variety of original treatments. The cheerfulness they provide by admitting much more daylight. The temperature control they assure, deflecting the cooling breeze in the summer . . . safe-guarding against loss of heat in winter because of their perfect weather-tightness. Their simple *finger-flick* operation. And best of all—the fact that they have no bulky hardware attachments to mar the beauty of their trim lines.



# Now Every Home can afford to have *Mesker* STEEL WINDOWS

No matter what the price of your new home will be, there are now Mesker Steel Windows available, so modestly priced, that they definitely fit into your budget. Adding that touch of luxury to *any* priced home, they are as popular in the low cost homes as in the more expensive ones.

There are Mesker Steel Windows to blend harmoniously with all types of architecture. Their arrangement in this inexpensive ranch house at the right, accentuates its low, range-like appearance. The generous flood of light they provide makes the rooms seem much larger than they actually are.

By virtue of their versatility, Mesker Steel Windows follow the traditional style of this medium priced Cape Cod home. Their trim design harmonizes with its simple architectural lines and produces an authentic character reproduction . . . proving that Mesker Steel Windows are as adaptable to conventional, as well as modern architecture.

Even in the more formal type home, as in the more expensive Early American-Georgian style illustrated here, Mesker Steel Windows achieve effective simulation of the original. The warm appearance, created by the window arrangement, carries out perfectly the traditional Georgian hospitality.

Remember, Mesker Steel Windows cost no more than the old-fashioned double-hung wood windows. In fact, *less* in the long run when you consider that there are no parts to wear out, no replacements, no maintenance costs repairing damage of warping, swelling, or broken sash cord. What's more, their maximum prevention of heat leakage minimizes fuel bills.

You can have all the extra conveniences and improvements of Mesker Steel Windows . . . and enjoy their style and beauty *at no extra cost*.

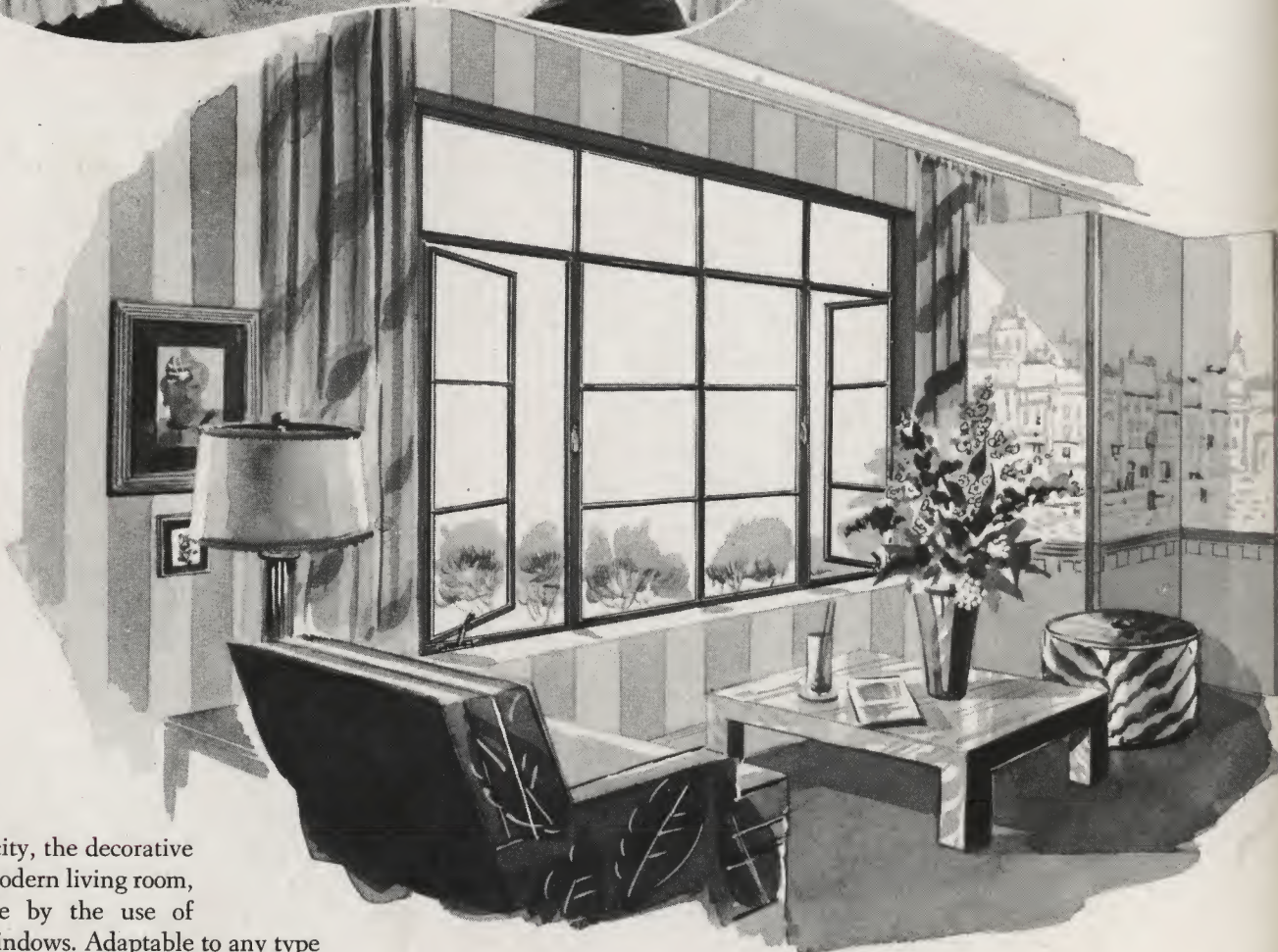




# Loveliness and Charm



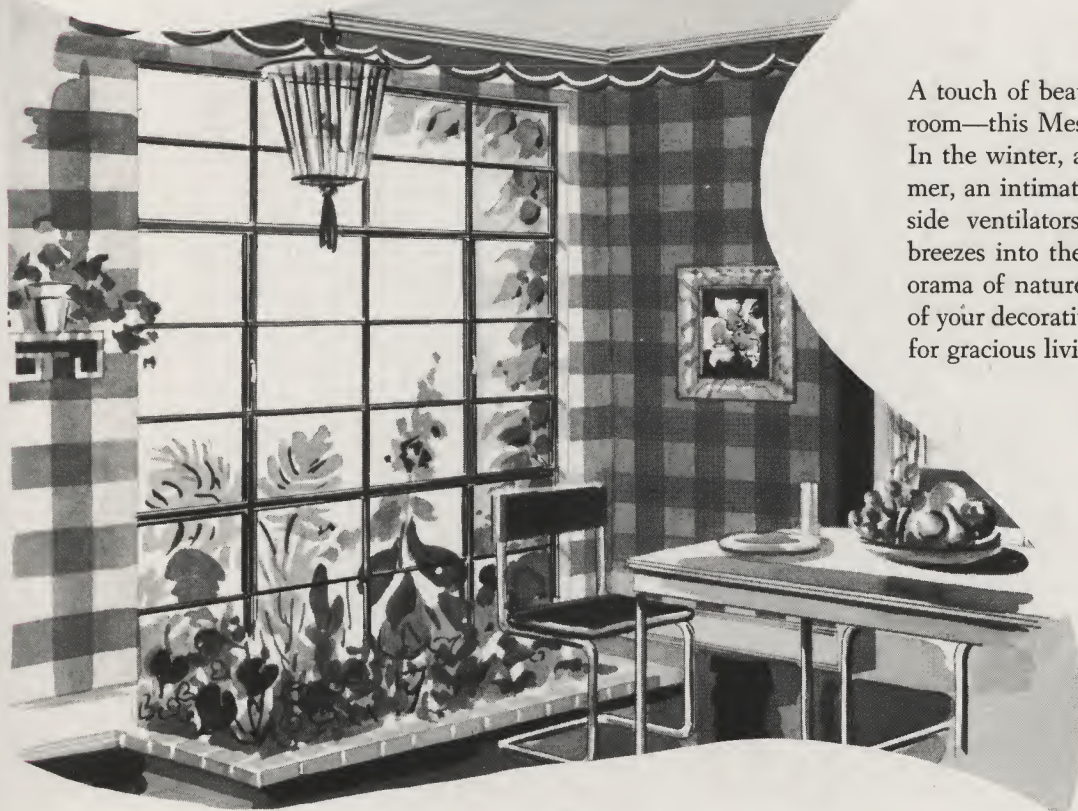
A refreshing note in bedroom flattery, this Mesker Steel Window "Vanity Bay" can be treated with frills for the extreme feminine taste, or severity for the more tailored type. You'll love the three-way natural light it affords for make-up, as well as provisions for recessed drawer space. This Mesker Window arrangement provides sufficient light and ventilation for your *entire* bedroom.



Dramatic simplicity, the decorative keynote of this modern living room, is made possible by the use of Mesker Steel Windows. Adaptable to any type of drapery treatment you desire, their "custom-made" appearance creates the illusion of added height and breadth in your room.



# with Mesker Steel Windows

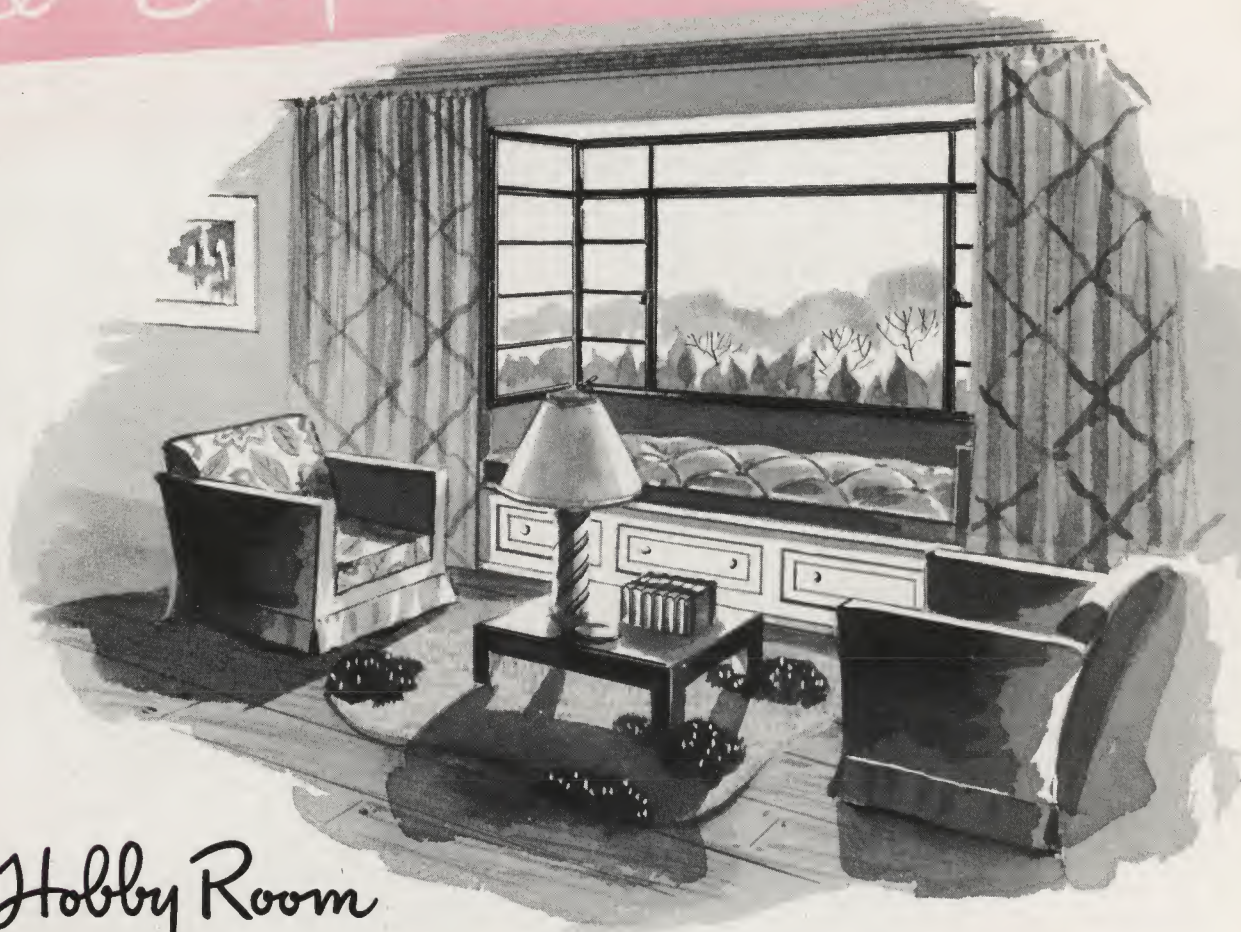


A touch of beauty to enhance your dining room—this Mesker Steel Picture Window. In the winter, a warm lookout . . . in summer, an intimate part of the outdoors, with side ventilators deflecting the refreshing breezes into the house. A four season panorama of nature to compliment the artistry of your decorative theme in a room designed for gracious living.

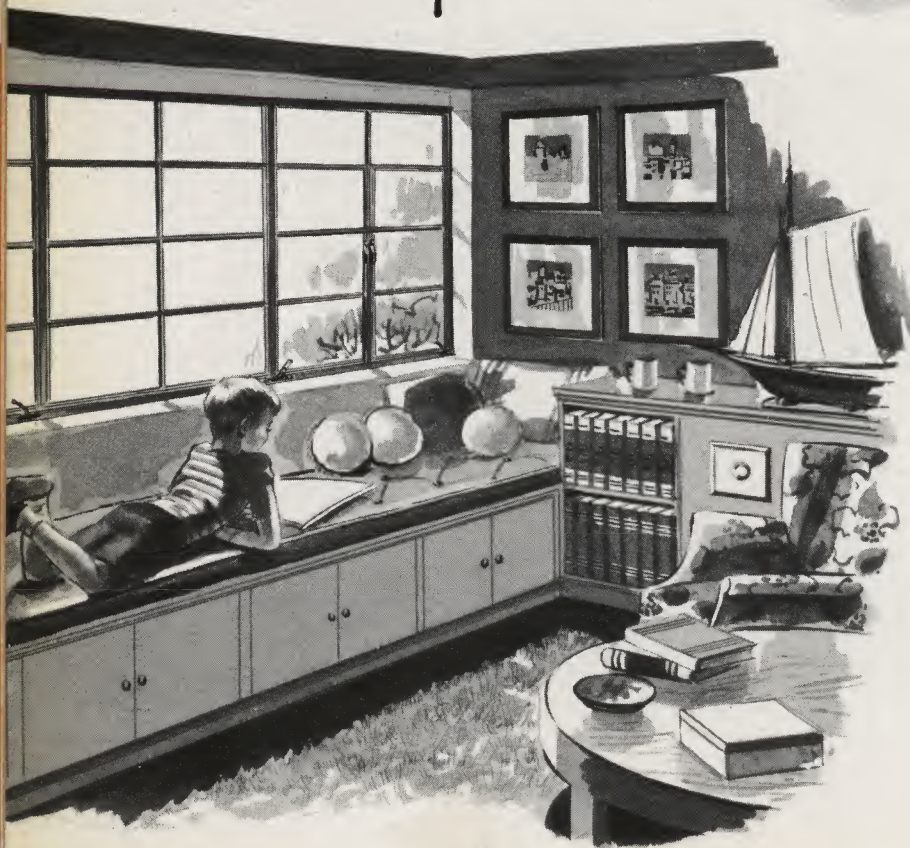
Or, if you prefer an informal dining space, now so popular in the smaller home, this special grouping of Mesker Steel Window units and indoor flower box provides a gay and festive atmosphere for family meals and informal entertaining.



# The Bay Window



## The Hobby Room



There are unlimited opportunities for unusual treatment with this combination Mesker Steel Window "picture-bay" arrangement. Converted into a window seat, it becomes a striking center of interest in your living room. Ideal as a "conversation corner" or game nook, its broad three-way view lends an air of spaciousness to your entire room. A decorative feat not possible with old-fashioned, double-hung windows.

Leisure hours for every member of your family in a hobby room made brighter, more "liveable" by the use of an unbroken series of Mesker Steel Windows. Admitting a flood of daylight, this "window-wall" arrangement takes away that cramped, shut-in feeling.



# Enchanting Bedroom

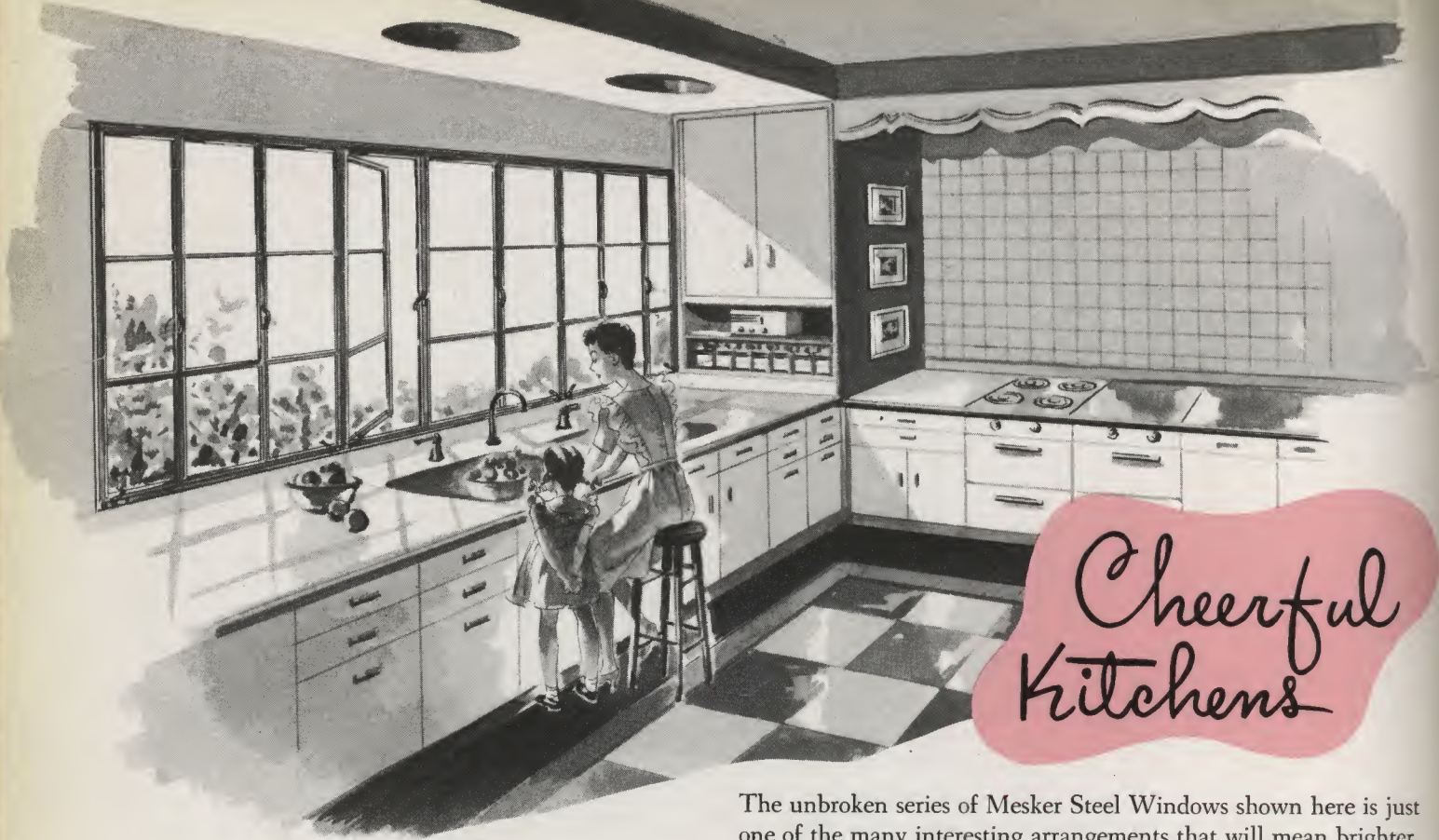
Designed to lend itself to simple or ornate treatment, this spacious Mesker Steel Window will work wonders in your bedroom. Admitting plenty of sunshine and draft-controlled fresh air, you will awaken in the morning, refreshed after long hours of healthful sleep, to the beauty of a cheerful, sun-flooded room. Superior in both style and function to old-fashioned double-hung windows, this new Steel Window is one of Mesker's most welcomed contributions to modern decorative art.



## A Study Nook

A versatile accessory for hobby room, living room or library, this recessed, built-in desk is practical for studying, reading or writing. The combination of two Mesker Steel Windows provides ample, natural light for close work. Alcoved as it is, this arrangement is a most effective way to conserve space and produce the illusion of larger quarters. Compare the ease of simple, crank-operation opening to that of tugging at old, difficult-to-lift, double hung wood windows.



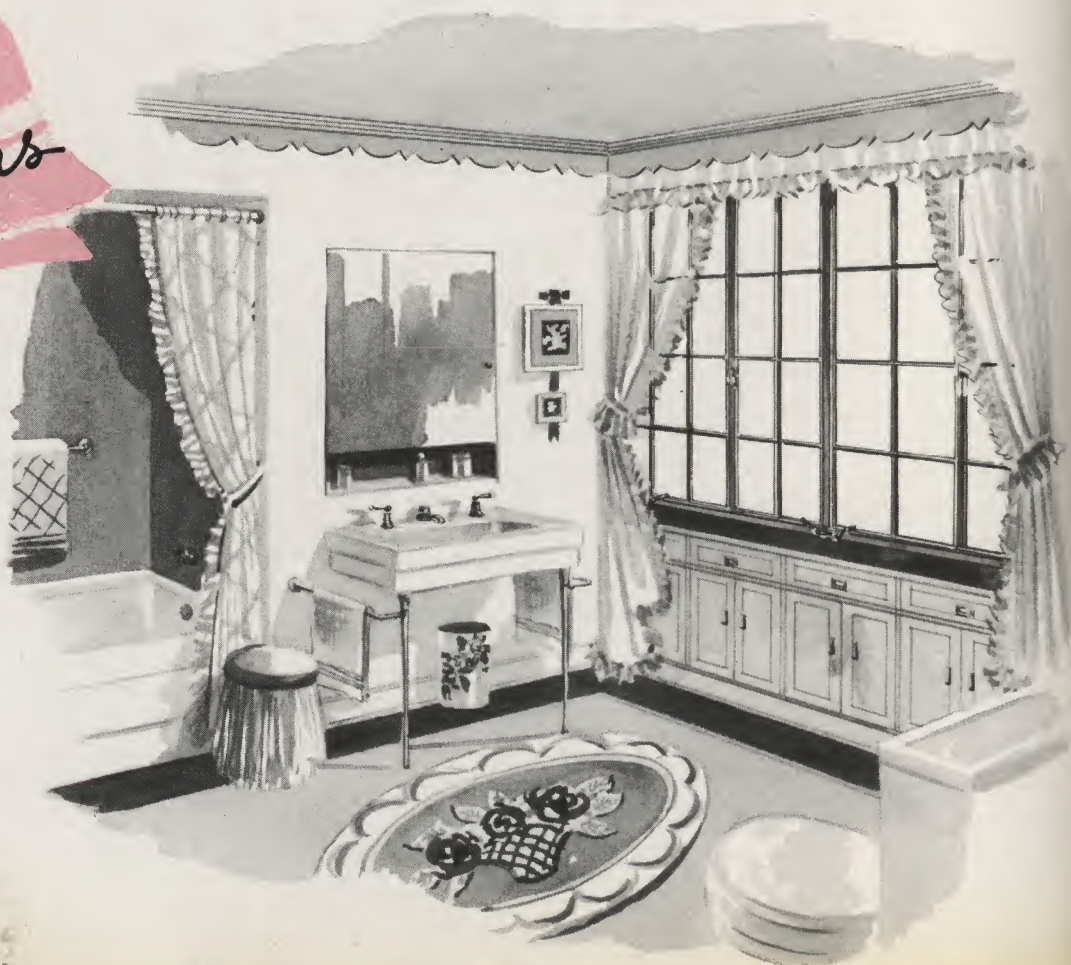


## Cheerful Kitchens

The unbroken series of Mesker Steel Windows shown here is just one of the many interesting arrangements that will mean brighter, cheerful, more efficient kitchen quarters. You'll marvel at the way their perfect ventilation control quickly removes cooking odors . . . at the ease with which they open, even over the kitchen sink.

## Lovely Bathrooms

Even bathrooms, formerly difficult from a window-decorating standpoint, can be as lovely as any of the other rooms in your new home. The perfect weather-tightness of these Mesker Windows prevent leakage of warm air, and help to maintain a comfortable temperature even in coldest weather. Such large windows as you see here, when equipped with opaque glass, make your bathroom sunny and cheerful . . . yet keep it intimately private.





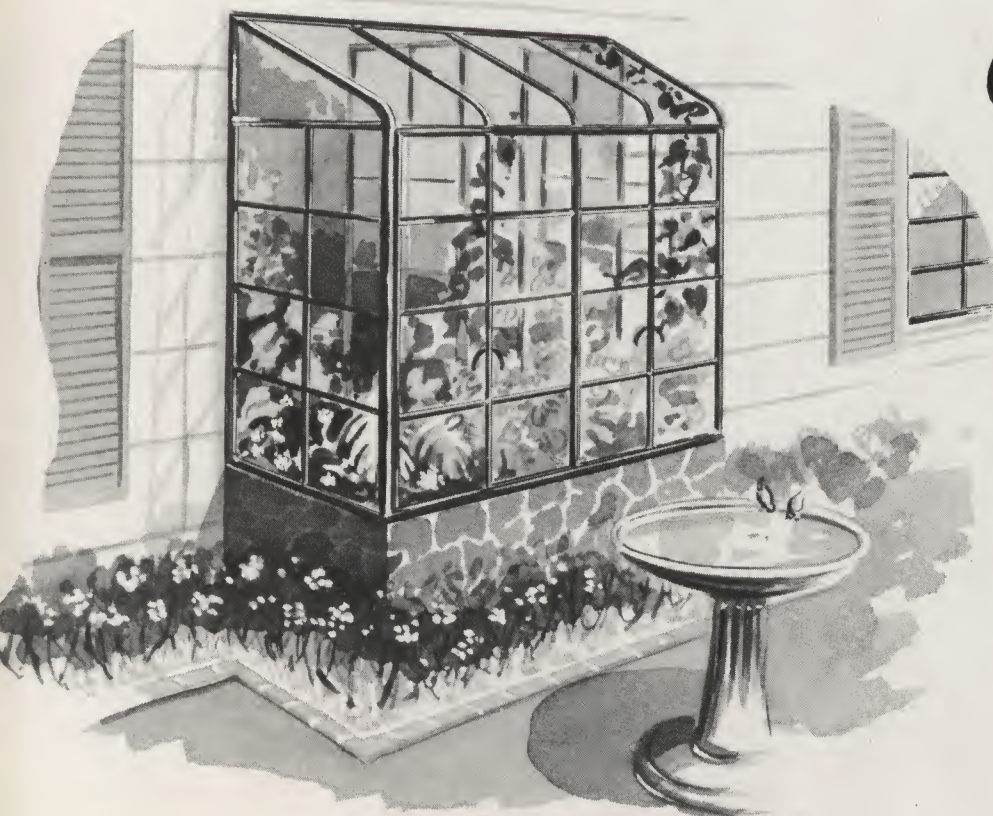
# A Tidy Home Laundry

If you're tired of antiquated, inadequate washing facilities in dank, dingy basements, see what Mesker Steel Windows do for that home laundry you're planning. Grouped as a "corner window", this Mesker Steel Window arrangement lets in abundant sunlight. Perfect fit prevents leakage of warm air, infiltration of damp, cold winds. Imagine how quickly wash will dry indoors in wintertime. In summer, you'll swing the vents wide open for breezy three-way ventilation.



# A Greenhouse all your own

June in January . . . with a lovely greenhouse to provide fresh flowers the year 'round. A bit of the outdoors indoors for the hot-house horticulturist who prefers his gardening in leisure. These Mesker Steel Windows, opening out, allow delightful ventilation in Spring and Summer . . . provide access to the hot-house from the outside. This Mesker Window grouping is an artistic addition to the small home. Your builder can supply you with the glass roof portion of this Mesker Steel Window arrangement.





# Modern Features of *Merket* STEEL WINDOWS that make Housekeeping a Pleasure!

## MORE DAYLIGHT



Thin steel bars, larger glass areas allow more daylight. Shades need only be drawn one-quarter way down.

## BETTER VENTILATION



100% ventilation. Vents swing out, deflect cool breeze inward, rid house of cooking odors.

## EASIER TO OPEN



Opened with a "flick of the finger," over a davenport or sink, or through venetian blinds.

## ROOMS LOOK LARGER



Trim steel members provide more glass area, admit more light, "make room look brighter, more spacious."

## EASIER TO SCREEN



Screens safely attached from INSIDE. No marking or numbering them for storage.

## EASY TO STORM SASH



Low cost storm sash, easily installed, opens with the window and allows proper ventilation.

## MORE WEATHER-TIGHT



Steel windows don't warp or swell, shrink, always remain weather-tight.



# Why You'll Want *Mesker* STEEL WINDOWS in Your New Home



Since 1879 Mesker Brothers have manufactured Steel Windows unexcelled by any other steel windows on the market. Through the years, they have increased in popularity until today they are recognized as "America's Number ONE Steel Residential Window".

There are many reasons why Mesker Steel Windows are being used in more and more homes. Blending harmoniously with any style architecture, they are NOW within the price range of every home. By actual test in use, the "quality supremacy" of Mesker Steel Windows has been established

with thousands of home owners throughout the country. Their reputation for durability and perfect performance has made "Mesker Windows" a by-word with thousands of home owners.

Like all far-sighted home-planners, you will want to prolong the beauty and comfort of your new home. That's why you will be wise to *insist* that your architect or builder *specifies* Mesker Steel Windows. For Mesker Windows provide enduring service, assure permanent distinction and gracious living in your *new* home.

**FOR FURTHER INFORMATION**  
**...Mail the Attached Form**



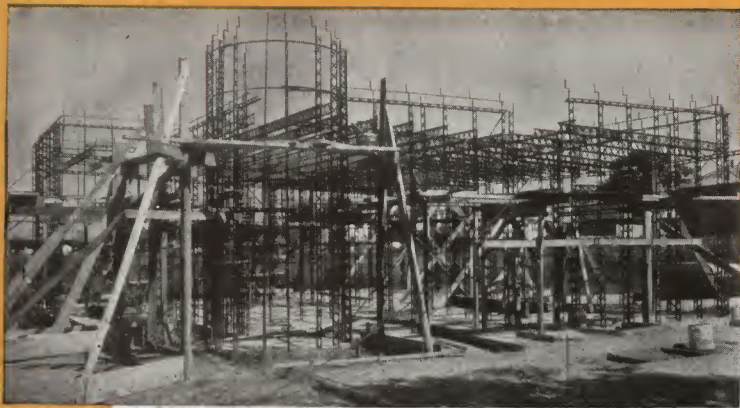


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Representatives in over 100 principal  
cities throughout the United States

Agents in most  
Latin American Countries

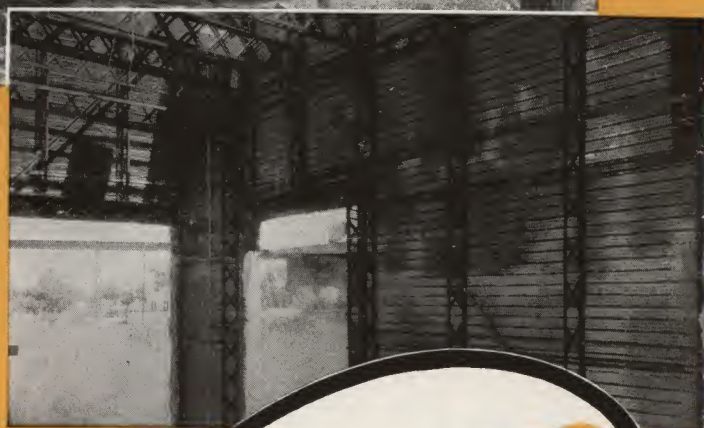




**BUILT AT AMAZINGLY LOW COST . . . Yet it  
will remain Beautiful for a Hundred Years!**

It is now possible, as shown by these pictures, to build an attractive, enduring home with a framework of lightweight Milcor Steel Studs (see page 6).

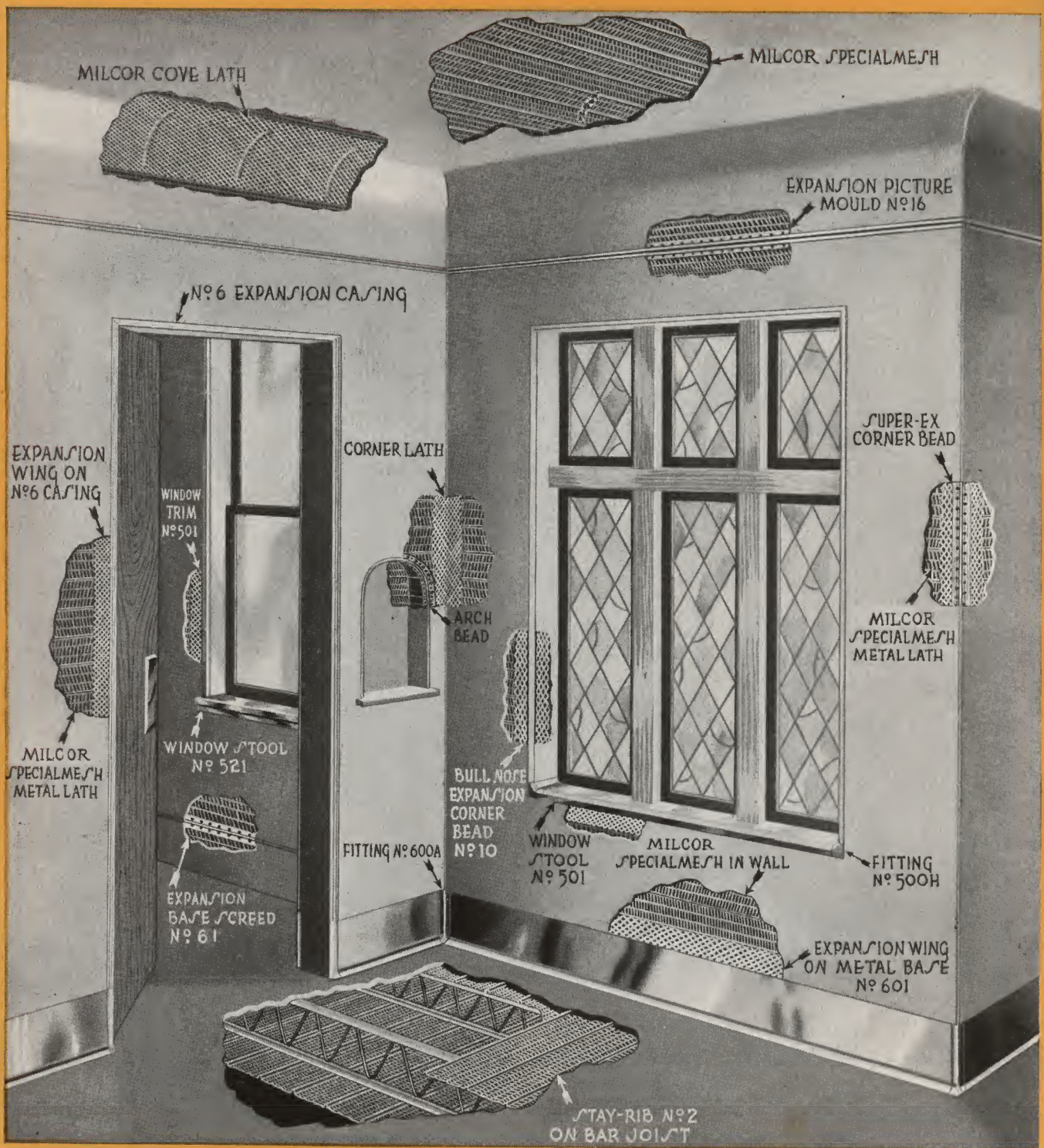
The exterior of this home is Portland Cement on a base of Milcor Metal Lath. The metal lath for both interior and exterior is wired to the steel stud framework which is likewise wired and welded together. The entire structure is one monolithic unit of great strength, impervious to cracking, shrinkage, or settling. It is absolutely fireproof.



**BUILD** *Right* **NOW!**







The illustration shows a typical interior embodying all types of Milcor Metal Lath, Expansion Corner Bead, Expansion Casing, Cove Lath, Window Stools, Metal Base and accessory products. If interested in Metal Window Stools and Bases, write Milcor Steel Company, Milwaukee.

## A Home Worth Building—**WELL!** is Worth Building

The knowledge that a home is built right is one of the greatest factors in the enjoyment of that home. There are those who will say that substitutes for plastering are worth while because they save a few days or more in erection time of the building. Certainly if a week or two could be saved during the time of construction without sacrificing ultimate quality, an owner may be justified in using materials which make this possible. On the other hand, if sound, permanent materials which assure economy of up-keep over the years are to be displaced by those of questionable value and permanence, the builder will make a mistake which he may never be able to correct. It is mighty poor business to make the large investment necessary for the building of a home and then have to regret the choice of materials.



# BUILD WITH STEEL

*as the backbone of your walls and ceilings —  
and you enjoy Safety, Savings and  
Satisfaction afterward*

Steel has made it possible to build our bridges, ocean liners, and skyscrapers. It has taken the place of less enduring materials in hundreds of manufactured articles.

And now Steel in the form of Metal Lath offers the home builder of today fire-safe, skyscraper-like construction at an *actual saving* in ultimate cost.

Milcor Fireproof Construction involves the use of Metal Lath and Accessory Steel Products as a plaster base. It makes walls so strong, corners, doorways and arches so firmly united that the building is held together as a single unit.

A good interior plastering job on Milcor Metal Lath offers advantages to the home owner which repays its cost many times. Plastered walls, by their very nature, are practically impervious to the passage of dust and dirt. They readily permit cleansing or redecorating of their smooth surfaces. There are no joints, seams or unevenness in the walls and ceilings of the house. Plaster on Milcor Metal Lath, when dry and hardened, produces a solid, *monolithic finish*. There are no rough, unfinished surfaces to catch and harbor dust, grime, and germs. There are no joints covered with batten strips or gaping cracks between units which cannot be kept clean. It is practically impossible to obtain by any other means the attractive appearance and permanence of a good plaster finish.

Your home is an investment—not only in contentment and comfort, but in money; not for one year, but over a long period of time. It must be considered as an investment—or it will be a disappointment. Ten years of up-keep expense on a home constructed of inferior, substitute materials will add hundreds of dollars to the original investment. Calculation must be made over a term of years. Permanent construction builds a much better house in the first place and yields an enormous saving in the long run.

Therefore, be sure you do the structural job *right*—be sure your walls and ceilings are made with good plaster over strong Metal Lath—which assures enduring, cost-free satisfaction.

## **BUILD RIGHT NOW**

*Go over the Materials in this booklet  
with your architect or builder*

In America's finest homes, walls and ceilings are now being made with fire-safe and permanently beautiful plaster on Metal Lath.

This attractive arch could be made only with plaster on a Metal Lath base.

The clean, inviting surface of the walls of this charming dining room will remain unmarred throughout the years because of good plastering on Metal Lath.



### **When Steel is the Back-bone of Walls and Ceilings**

(above)

1. Milcor Stay-Rib Metal Lath in ceiling.
2. Milcor Cove Lath.
3. Milcor Expansion Corner Bead.
4. Milcor Specialmesh Metal Lath in walls.
5. Milcor Metal Window Stool.
6. Milcor Metal Base with Expanded Metal Wing.

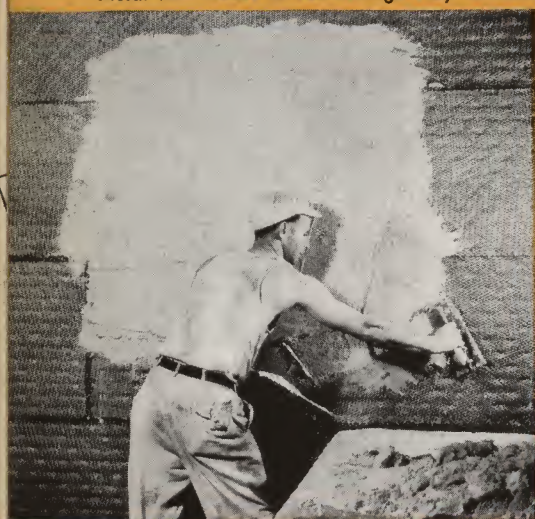




An unusual dining room ceiling made possible by Metal Lath.



Metal lath makes curved ceilings easy to build.



### Metal Lath Assures a Good Plaster Job

Plasterers cannot skimp when Metal Lath is used as the plaster base because the plaster must be forced through the meshes of the lath. Three coats of plaster are always used with metal lath. A good, heavy plastering job, reinforced with steel, makes the finest wall.



Beautiful effects can be obtained with plaster or cement over Metal Lath as shown by this fountain.

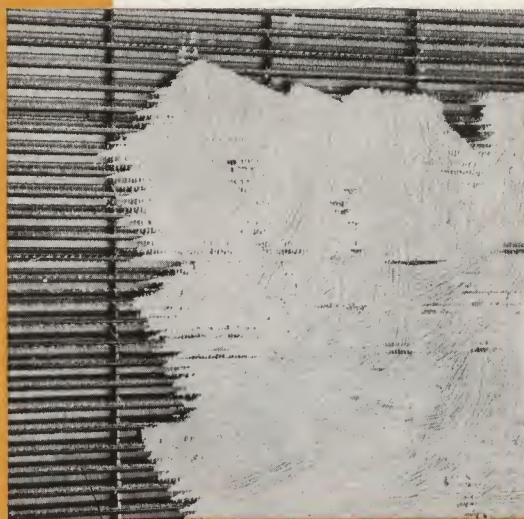


The interesting arch in this picture was made with Milcor Expansion Corner Bead and Smalmesh Metal Lath. The bead makes a finished, enduring opening.

## MILCOR Metal Lath Gives Unlimited Freedom in Structural Forms and Shapes

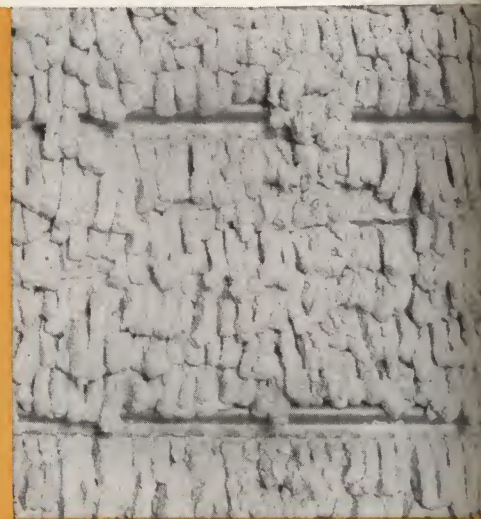
The deft trowel of today's plasterer utilizes the freedom of forms and shapes made possible by metal lath to develop more beautiful interior architecture. Many homes are now finished with interesting plaster textures which indicate a new awakening of appreciation for plastering as a medium of expression in architecture. No longer is plaster regarded merely as a base for decoration. It has become the decoration itself. Texture and color tone have been skillfully combined in the most charming manner. The plasterer of today is really a plastic decorator.

There is no end to the types and kinds of interior decoration which are possible with plaster on metal lath. Wall paper of any kind will maintain its beauty only over a proper plaster surface. Plaster also takes any painting desired and makes redecoration possible at low cost.



### The First Coat Covers the Lath

The first or "Scratch" coat of plaster is forced thru the Metal Lath so that it is "keyed" on both sides of the steel reinforcing. For your own sake, consider the value of a wall built in this manner as compared with a skimpy plastering job on a flimsy substitute plaster base.



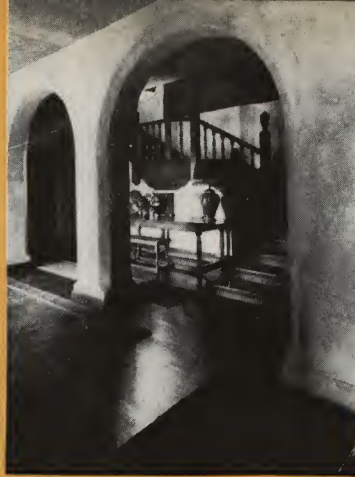
### Completely Imbeds the Metal

This picture shows the back surface of plaster on Metal Lath. Notice how the plaster has been forced through the lath to such an extent that when dry and hardened it becomes permanently "clamped" to the steel. Milcor Special mesh is so designed that all of the plaster is used in the wall. There is no waste.





This living room will keep its dignified beauty because its walls are made with plaster on rigid, crack-free Milcor Specialmesh Metal Lath.



Any architectural inspiration may achieve its perfect material expression with Metal Lath.



Smalmesh Metal Lath.

## Use These MILCOR Metal Laths for Interior Walls and Ceilings

*Smalmesh Metal Lath* is expanded Diameter Mesh produced by special machines and equipment designed and built by Milcor engineers. Due to the close rigid mesh only a comparatively small amount of plaster is required to produce a perfect key with speed and ease as well as economy in plastering material.

*Milcor Specialmesh* is a new rib lath specially adapted for interior walls and ceilings. The meshes are so formed that in plastering, the slightest pressure of the trowel completely imbeds the lath, and due to the small mesh, waste of plaster is eliminated. The longitudinal stiffening ribs are  $\frac{3}{8}$  inch wide, spaced  $1 \frac{5}{8}$  inches on center and are strongly reinforced by strands at  $\frac{1}{4}$  inch intervals. These strands, in turn, are strongly reinforced by stiffening members.

### Plaster on Metal Lath Protects Against Fire

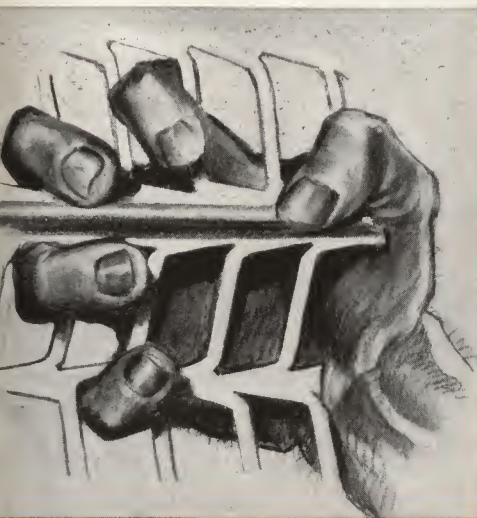
Plaster itself cannot burn—and when walls and ceilings are made with plaster on metal lath, the steel webbing of the lath holds the plaster in place so fire cannot go through. In standard tests a fire of 1,750 degrees rages for 75 minutes on one side of the metal lath and plaster partition while the surface on the opposite side remains cool enough for one to lay his hand on it without discomfort. In such a heat most other materials would be reduced to ashes.



Milcor Specialmesh Metal Lath.



Room with Metal Lath applied ready for plastering.



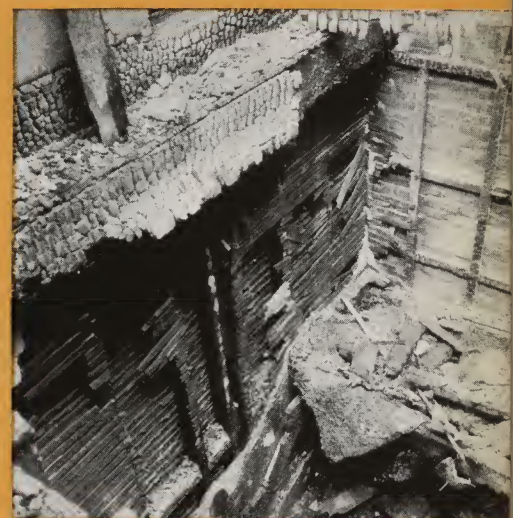
### Holds Plaster in Grip of Steel

When plaster is applied to Metal Lath it is held by mechanical keys acting as strong finger grips which can never let go. That is why Metal Lath prevents cracks in plaster—why the whole wall is held together in one monolithic slab which cannot be subject to warping and shrinking.



### 3 Lives Saved With Metal Lath

Although the fire in this room was so intense that window panes were shattered, three persons slept undisturbed on the other side of a Metal Lath and plaster partition. The fire-safe qualities of Metal Lath are priceless when human life is at stake.



### 7 Lives Lost With Ordinary Lath

The picture above is in ghastly contrast to the one at the left. Seven persons died in this fire of small origin, which soon became a raging inferno because of the combustible material used in construction.





Milcor casing gives a neat, trim effect, in keeping with the finest design.



Expansion wings reinforce plaster around door or window casings.

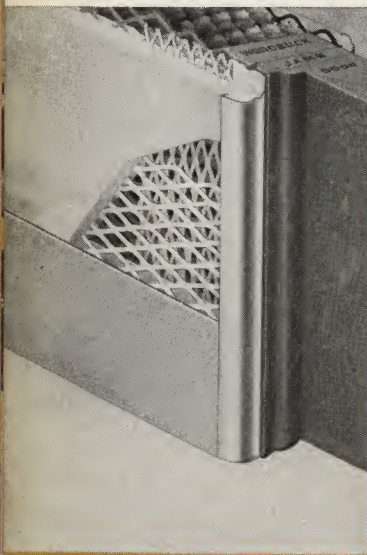


Wall crypt and arches made with Milcor Expansion Corner Bead.

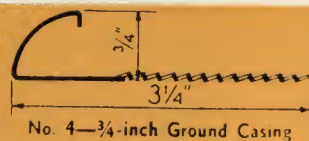


This bead is easily formed to many shapes; retains reinforcing value.

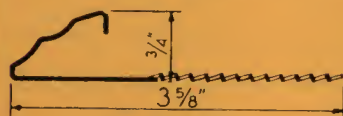
## PROTECT AND BEAUTIFY WITH MILCOR CASING AND CORNER BEAD



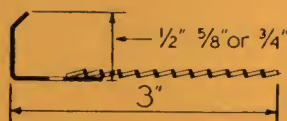
LEFT: Illustration shows how casing is applied and used with metal lath and metal base.



No. 4— $\frac{3}{4}$ -inch Ground Casing



No. 6 Casing



No. 60 Expansion Wing Casing

ABOVE: Designs of Milcor Casing with Expansion reinforcing wings.

### EXPANSION CASING FOR DOORS AND WINDOWS

You will be delighted with the smart, good-looking effect of Milcor Expansion Casings on your doors and windows. Their simple beauty harmonizes with all types of interior decoration.

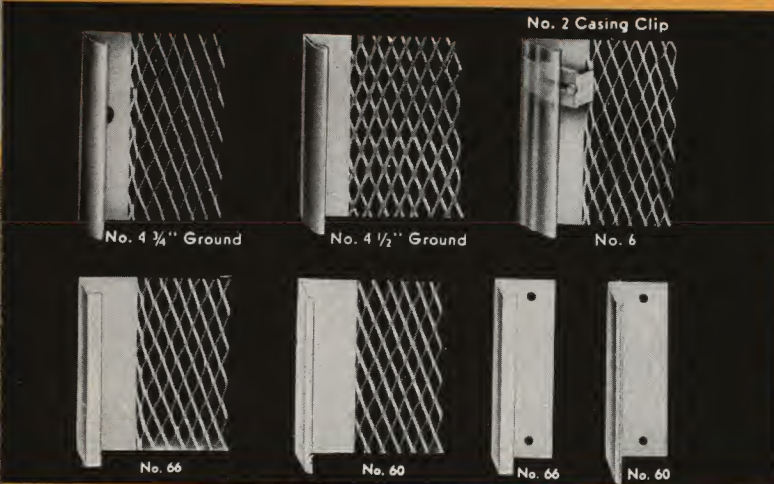
The neat, trim appearance of Milcor Casing provides a practical answer to the desire to get away from the old-fashioned, heavy wood trim around openings. The Expanded Metal Wing of this casing grips the plaster permanently to the metal and there can be no cleavage cracks or pulling away from the wall. The painted metal surface is easy to clean and perfectly sanitary. Milcor Metal Casing cannot warp or shrink. It is integral with the wall itself and provides an air-tight junction between the casing and jamb which makes impossible the entrance of cold air at this point.

In addition to its artistic appearance, and practical, fire-safe features, Milcor Metal Casing offers the builder a real saving in construction. There is a reduction in labor due to simplicity in handling and considerable saving in installation time. Finishing cost is much less than with other materials.

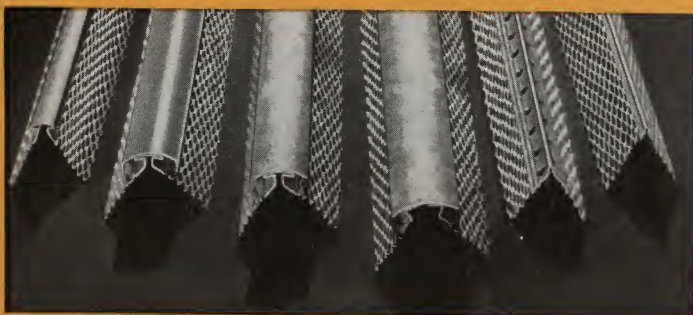
### EXPANSION CORNER BEADS PROTECT CORNERS AND ARCHES

These corner beads have an Expanded Metal Wing which reinforces the plaster right up to the nose of the bead. There are no solid surfaces on Expansion Corner Beads where the plaster may or may not stick. The result is an effective reinforcement where it is most needed, and substantial assurance that the corners will withstand much more than average abuse.

Years ago plaster corners in houses were protected with an ugly, heavy, wooden moulding. Modern homes and buildings now use metal corner beads only. Other types of corner beads are ideal for arches and many other openings. They can be curved to any desired radius without losing their reinforcing value.

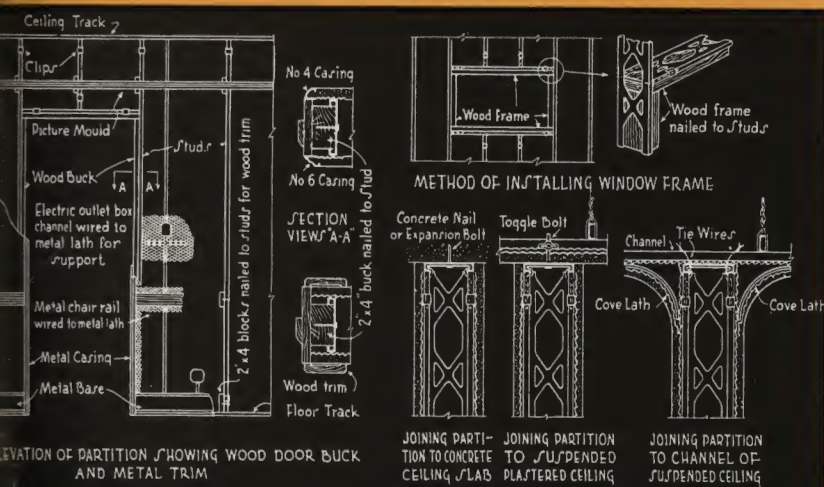


Casing may also be obtained without Expansion Wings, if desired.



There is a Milcor Corner Bead for Every Need. Note many styles available for different uses.





Diagrams show application of Milcor Steel Studs as framing for doors and windows, also methods of joining partitions.

## MILCOR STEEL STUDS

The cost of Milcor Steel Studs for non-bearing partitions compares favorably with ordinary wood studs and yet they offer the advantages of a sturdy steel member which is not affected by moisture and cannot swell, warp or split. These studs are held firmly in place and assure a wall of unusual strength and permanence.

Partitions made with Milcor Steel Studs are absolutely fire-safe. They resist stresses and pulls and offer high insulating value, sound resistance, and light weight.

Expansion Corner Beads, Picture Mould, Chair Rails, Casing, Cove Lath, and other finishing materials are applied to these studs in the usual manner. Heating and plumbing equipment take less time to install when these steel studs are used. The new embossed, "X" shaped Milcor Studs embody by far, the most advanced engineering design and the greatest number of advantages to the user of any Steel-stud for this purpose on the market.

## MILCOR SLIDE-AWAY DOORS

Every home owner will want these new sliding doors because they are so convenient and efficient. The door unit comprises the complete opening—including the door, jambs and casings together with the wall section into which the door slides. Door is sound-proofed metal and absolutely fireproof. It is smoothly painted a neutral prime coat and will take any color finish to match other decoration. It glides quietly into the wall and out of the way. Metal lath is furnished for wall section. Hardware installed. Prefabricated, it reduces handling, cutting, fitting and installing costs at the building site.

## MILCOR METAL ACCESS DOORS

It is necessary to have access doors in certain parts of the home to permit key points in plumbing, heating, and electrical systems to be reached conveniently and easily. The Milcor Access Door is inconspicuous because its surface is flush with the plaster. Wall paper or paint may be put over the door to conceal it entirely. These doors come both with and without the expanded metal reinforcing wing. The door itself is removable or hinged to the housing as desired. Ready access to valves, fittings, etc. is provided at the turn of a screw. Available in 16 sizes.

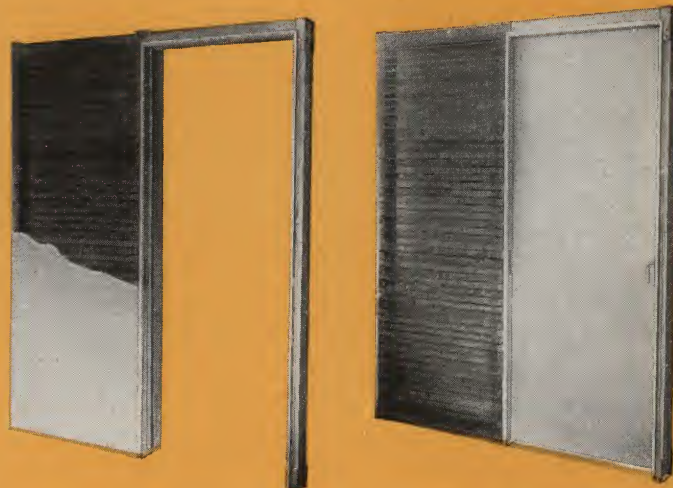
Illustrations at right show access doors before plastering (door opened) and after plastering (door closed).



Photo above shows installation of steel studs in partially plastered wall. Note pipe going through studs.

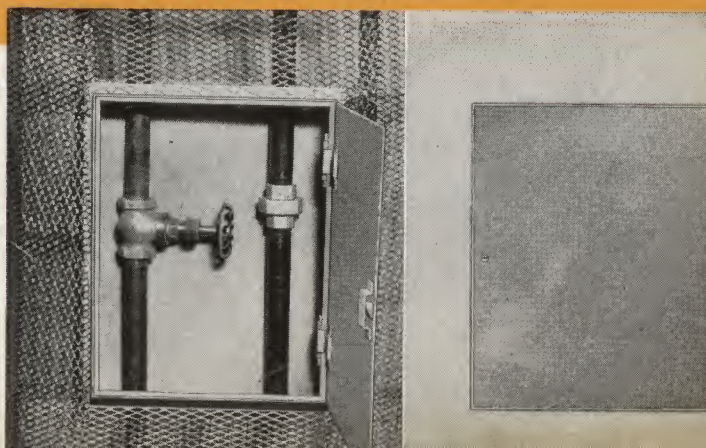
Milcor Steel Stud

On the cover of this booklet are pictures of a home whose framework is made entirely with Milcor Steel Studs. These Studs are bought in stock lengths, cut in proper dimensions and erected by the Metal Lathing contractor with his simple tools. All members are attached together with strong tie wire and supporting members subsequently welded for extra strong construction. An idea of the extremely low cost of this construction may be obtained from the fact that the house shown on the cover required only 192 Man Hours to complete the erection of all steel materials from the foundation up, including framework for exterior and interior walls, roof joists, lathing for the entire building as well as installation of a suspended ceiling, all corner beads and casings.



Door Opened. Illustration shows Metal Lath partially plastered.

Door Closed. Metal Lath applied and ready for plastering.







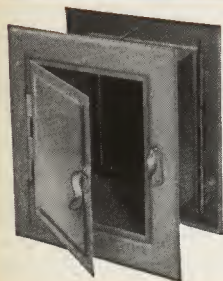
Milcor Louver Ventilators make an attractive installation at gable ends.



No. 100 Series Louver (self-casing) No. 200 (for Masonry) No. 300 Series (Flush Type Flange) Ventilators are also available for application on pitched roofs.

### MILCOR LOUVER VENTILATORS

Milcor Louver Ventilators installed in opposite ends of the attic provide cross-ventilation to carry off summer heat. In winter when moisture reaches the attic and comes in contact with the cold walls and ceiling, it condenses into drops of water. Louvers provide cross-ventilation to carry off this moisture-laden air before the moisture can condense.



### MILCOR PACKAGE RECEIVER

This steel package receiver is absolutely sanitary and warp-proof. It is adjustable to wall thickness from 5 to 14 inches. The wall opening is 9 x 11 inches. Catches are made of wrought steel and are unbreakable.



### OF COURSE YOU'LL WANT A MILCOR PICK-UP CART!

This strong, good-looking Cart is built to be your ever-ready servant on the job that used to make you frown. Now you can smile and enjoy doing the things that should be done. The Milcor Pick-Up Cart does the **HARD** part of the work . . . No Stooping — No Back Aches — No Lift or strain.

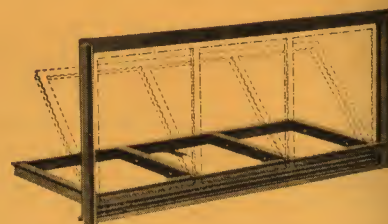
The front lip of the Cart tips right down to the ground for easy loading of leaves, cans, rubbish, sand, etc. The Cart is so scientifically balanced that women and children can use it as easily as men.



*It's  
handy  
to have  
around!*



### MILCOR STEEL BASEMENT WINDOWS



The steel frame of this window will last the life of the building. Made of solid section hot rolled shapes, completely electric arc-welded, it is a tight-fitting, warp-proof window which provides maximum daylight and requires little or no attention at any time. Ventilators are both removable and interchangeable. Putty glazed for weather-tight protection.

### MILCOR FLUE OR CLEAN OUT DOOR

This door is stamped from highest grade copper alloy steel sheets. Hinges are integral with the frame and door. No riveting or welding is employed. Catches are of wrought steel.



## MILCOR STEEL COMPANY

MILWAUKEE 4, WISCONSIN

BALTIMORE 24, MARYLAND • CHICAGO 9, ILLINOIS • KANSAS CITY 8, MISSOURI • LOS ANGELES 23, CALIFORNIA • ROCHESTER 9, NEW YORK

— and — *The* J. M. & L. A. OSBORN CO. CLEVELAND 14, OHIO • DETROIT 2 • BUFFALO 11 • CINCINNATI 25  
... a Division of Milcor Steel Co.



# *Heating*

and AIR CONDITIONING

## THE POSTWAR HOME







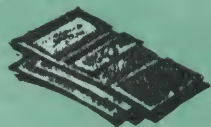
*"To make a happy fireside clime  
to weans and wife  
That is the true pathos and  
Sublime of human life"*

— BURNS



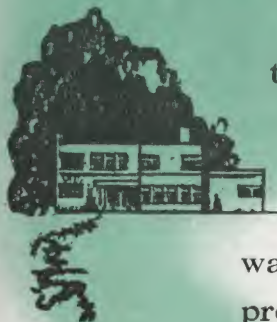


**W**E ARE VERY HAPPY TO MAKE THIS LITTLE BOOKLET AVAILABLE TO YOU . . . You will find it interesting to read, informative and challenging, because we are going to talk to you straight from the shoulder — and pull no punches. It is in your interest, for your home comfort and your pocket-book.



¶ Only in that way can this book give you what we believe you should know about your present heating system, and what you should demand be incorporated in the plans for your new post-war home.

¶ Minneapolis-Honeywell has been in business 58 years, and outside of the war years has devoted all its talents to creating heating comfort for the American homemaker. Modestly, we believe we have made many substantial contributions — but not enough — not good enough. We are not satisfied, and suspect you are not. Therefore, today, as never before we are working and planning for better heating in your post-war home . . . this we promise you, just as you



have been promised and will expect other new and better things in the days following peace.

¶ Were we to ask you if your present heating system is O. K., we would probably get answers that would indicate, generally speaking, satisfaction. Such a tabulation might well cause us to sit back on our haunches, bathe ourselves in self-admiration, fall into complacency, and eventually die of dry rot. But, we are not going to do that, because we are not satisfied, and that's the way it should be.



¶ We hinted that your answer to the query, "Are you satisfied with your present heating system," might be — "Yes," but we dare not be so presumptuous, and so we are going to let you answer the following questions in your own mind. If you wish to check them with your own pencil, that's all right, too, for after all, it is only your score that counts.



CHECK THEM WITH YOUR OWN PENCIL



# Check ☐ Yes ☐ or ☐ No

1 Do you think your fuel bill is too high? . . . . . ☐ ☐

2 Have you roasted in the living room, in order to maintain a livable temperature in the rest of house? ☐ ☐

3 Have you found your kitchen too hot when cooking or washing dishes? . . . . . ☐ ☐

4 Is your bathroom (particularly when you take a hot bath) too cold for comfort? . . . . . ☐ ☐

5 Are your ceilings hotter than the rest of the room . . . Walls cold? ☐ ☐

6 Are your floors cold, drafty, too cold for the children to play on? ☐ ☐

7 Does your furnace or boiler supply heat when your thermostat demands it and then during the "off period" does your house feel chilly before the heat comes on again? . . . . . ☐ ☐

8 Do your radiators run steaming hot, then cool off and because of that a chill sets in, or do your registers send up hot blasts and then cool down, until finally little or no warm air comes through them? . . . . . ☐ ☐

9 Do you see the folly of trying to heat a house, big or little, from one little thermostat stuck on the wall in one room? . . . . . ☐ ☐

10 Is the sunny side of your house warmer than the other sides, and is the windward side always colder? ☐ ☐

11 Wouldn't you like to maintain different temperatures in various rooms of the house? . . . . . ☐ ☐

## For example:

A The living room warm during the day while the bedrooms remain cooler? . . . . . ☐ ☐

B The bedrooms warmer on retiring, and cooler while sleeping? . . . . . ☐ ☐

C The bathroom warm enough to take a shower? . . . . . ☐ ☐

D The sick room warmer than the other bedrooms? . . . . . ☐ ☐

E The nursery warmer than the rest of the house? . . . . . ☐ ☐

F The kitchen cool and comfortable when cooking? . . . . . ☐ ☐

G The laundry cool and comfortable when washing and ironing? ☐ ☐

H The recreation room cool enough for billiards, table tennis, or a game of darts? . . . . . ☐ ☐

I The garage just warm enough to start your motor with ease on a zero morning? . . . . . ☐ ☐



- 12 Don't you want the economy that comes from a controlled variation of temperature in different parts of the house? . . . . . ☐ ☐

- 13 Don't you want to save the fuel now going to heat an unoccupied bedroom, or to make it available for the living room, or vice versa? . . . ☐ ☐

Now add your score. We believe your answers to these questions are "YES."

But, here is another set of questions which you need not score. Their answers speak for themselves.

- 1 Isn't it true that we have been sold short on our heating systems? By that we mean, too little attention has been given to the heating system by all of us? . . . ☐ ☐



- 2 Isn't it true that we have been sold fancy kitchens, glamour bathrooms, artificial fireplaces, recreation rooms, and a host of other things, with little or no mention made of our heating system? ☐ ☐



- 3 Isn't it often true that after all other plans were made, only the money that was left went into the heating system? ☐ ☐
- 4 Isn't it often true that with an inadequate appropriation, bids were taken for your heating system and the lowest bidder took the job, and, through no fault of his own, had to give you something less than you should have had? . . . . . ☐ ☐
- 5 Isn't it true that the heating system is such an integral part of the construction of your house that it is very difficult to change? . . . . . ☐ ☐

## Yes

We believe that your answers to these questions, too, are "Yes." But . . . now if we ask whether you are satisfied with your present heating system, we believe your answer will be "NO."

¶ Of all the questions we have asked, the "\$64.00" one is your question to us. "How do we correct these faults — gain these advantages?" In terms of your comfort and pocket-book, our reply would be, "In the new developments of Minneapolis-Honeywell."



¶ What we are going to describe in the following pages is not in the dream stage, not in the research laboratories, not on the drawing boards, but will be ready when you modernize or build your new home. They are proved, tried, and tested. They will do what we say they will do. But, before we go into that, let's digress for just a moment and think about this thing we call a heating system.

1 Have you, and that means all of us, valued enough the one thing, outside of the four bare walls and the roof, that is the most important item in the construction of the whole house — your heating system? . . . . . ☐ ☐

2 Is there anything, outside of food and shelter, that is more important to our well-being than warmth, in terms of bodily comfort, and just the right amount according to our own personal needs? ☐ ☐

3 In terms of colds and chills that may lead to more serious illness, is there anything that means more to the health of a household? . . . . . ☐ ☐

4 Is there anything that gives as much charm and livability to a household as a fine, accurately controlled heating system? . . . . . ☐ ☐

# No

We believe the answers to these questions are "NO" and that all these answers put us in common agreement—common understanding. So let's proceed from here to explain and illustrate as simply as we can, for it is not likely that you are an expert, how the things we propose to offer will give you more comfort, more economy—better home heating. How they work, what they look like, and an idea of what they cost, where they can be put, how they can be adapted to your present home, or be incorporated in the plans of your postwar home, are the things, after all is said and done, that you want to know.

¶ And that brings us to the announcement of a unique method for uniform heat distribution, which may well revolutionize all postwar home heating.





# MODUFLOW A REVOLUTIONARY

## DEVELOPMENT IN HEATING

MODUFLOW . . . a brand new, powerful word in home heating. You will hear it time and time again in the future.

¶ Reduced to the parts from which it was coined it stands for "modulated flow." But what is modulated flow? The dictionary says "Modulate — to measure or meter, to adjust, or regulate by a certain proportion, etc.". Therefore, MODUFLOW means . . . modulated heat with continuous flow of the heat medium (air, water, steam).

¶ Obviously it is the direct opposite of the "on and off" or intermittent heat supply that prevails today, which we predict will be obsolete in the better homes of tomorrow. With MODUFLOW, heating ups and downs will vanish. There will be an even flow of just the right amount of heat, constant and continuous, to replace the heat loss in your home, which occurs every second of the day. Sometimes we lose sight of the fact that the heat required for bodily comfort in a room or a home must be only sufficient to offset the heat which is lost through doors, windows, walls, and 101 different places,

and that this loss is constant. Therefore, heat replacement should be constant, except of course when outside temperatures make heating unnecessary. MODUFLOW does just that, and saves you fuel besides.

¶ The MODUFLOW SYSTEM of control developed by Minneapolis-Honeywell is not a new development, nor is it in any sense an untried experiment. The method of heat modulation and continuous flow, has been applied over a period of years to large structures, such as public and commercial buildings, school and industrial plants. The M-H engineers responsible for this development have now adapted it for the house, so that it will be available in the postwar period to every home maker at moderate cost.

¶ In thinking of the MODUFLOW SYSTEM as applied to your house, it should be pointed out that the system divides itself into two classifications — one a simple application for existing homes, as well as new ones—the other for new homes where provision can be made during construction for certain additional features and refinements.



# CONVENTIONAL HOT WATER SYSTEM

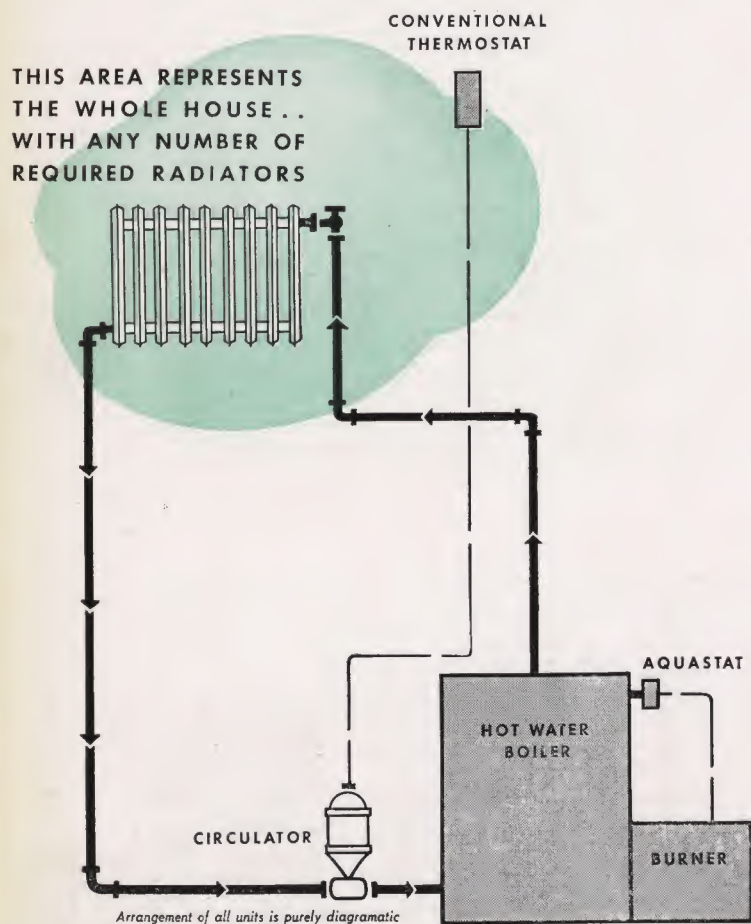
In the following pages we are going to describe three types of heating systems in general use today—hot water—warm air—steam. Each is written under its own caption, so that you may read, if you choose, only the system which interests you most.

¶ First we are going to talk about a conventional hot water system. If it is a modern hot water system, it is probably made up of these essential elements—(1) boiler—(2) burner (coal, gas

or oil) — (3) circulator — (4) Aquastat (boiler temperature control) — and a (5) conventional thermostat—(see diagram below).

¶ Its operation is briefly this:— The Aquastat controls the burner, and maintains the water at a predetermined temperature, usually about 180° F. When the water gets cooler, the Aquastat sends an electrical message to the burner and it starts up, and when the water in the boiler has again reached its 180°, the Aquastat shuts off the burner. When the room thermostat demands heat, to satisfy its setting, it sends an electric message to the circulator—“to go on”—and it immediately starts to pump 180° water into the radiators. When the thermostat is satisfied, it sends another electric message to the circulator to—“shut off”—and it immediately stops, thus shutting off all circulation through the system. This results in a steady decline of radiator temperatures, and the rooms get gradually colder.

¶ This is known as the “off and on,” intermittent type of heat distribution. In this kind of a system the circulator is either delivering very hot or no water, which anyone can see is a fault in itself. It also produces what heating men call a “lag” and an “over shoot,” a condition they have tried to correct for years. MODUFLOW will correct this.





# MODUFLOW

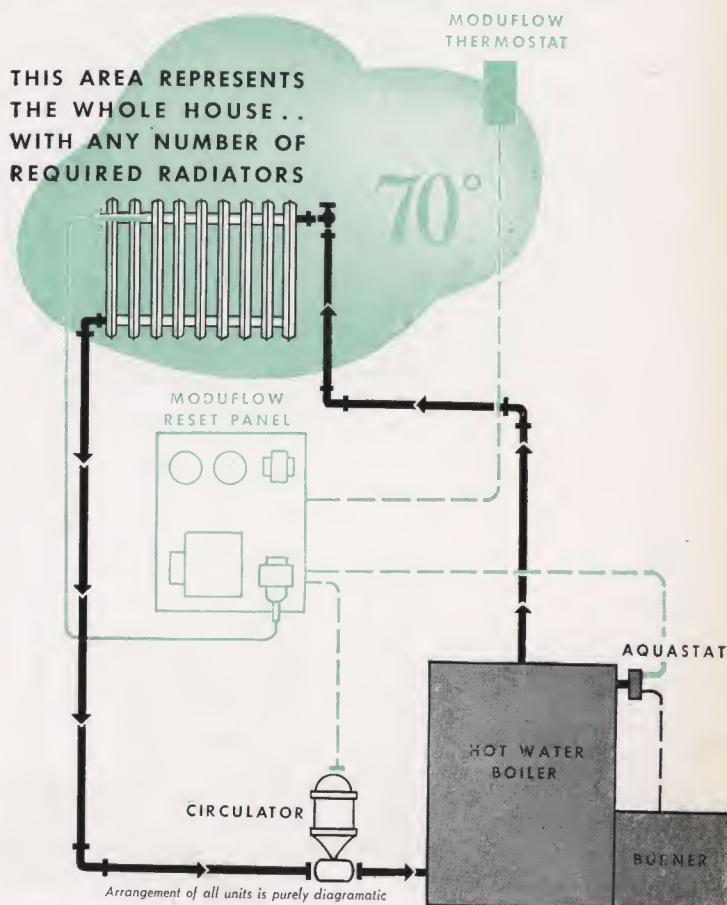
## CONTROL SYSTEM FOR HOT WATER

¶ How can MODUFLOW be applied to your hot water heating system with moderate expense? The diagram below shows one method for adding MODUFLOW to your heating system. The green lines are the simple additions, and all we did was to replace the conventional thermostat with a Moduflow Thermostat, added a Reset Panel and a temperature sensitive bulb, located in the radiator in the same room as the thermostat. Now, let's see how it works, and follow the diagram.


¶ The thermostat measures the rate of heat loss in the room, which is continuous, and sends an electrical message to the Reset Panel. The bulb in the radiator is sensitive to the water temperatures, and it, too, sends a message to the Reset Panel. Upon receipt of the two messages, the panel immediately establishes the amount of heat which is to be delivered to the home for comfort. Comfort is of course predetermined by the occupants, through their original setting of the thermostat. In other words, the Reset Panel is the "mastermind" that controls the burner, the circulator, and the temperature of the water to be delivered to the radiators to create the comfort desired. More simply stated, the Moduflow Reset method will deliver water to the radiators at varying temperatures, ranging from very hot to barely warm, and most important,

the radiators are never cold. That's what you want, and that's the idea that will produce the right temperature at the right place, and at the right time. On the other hand, if there is no demand for heat, or in mild weather when the outside temperatures approach the thermostat setting, a switch in the Reset Panel shuts off the burner and the circulator, and the whole system is dormant. Night shut-down can also be incorporated as an added economy feature.


The illustration below shows only one method for installing Moduflow. There are others.







## MODUFLOW SECTIONAL



# CONTROL SYSTEM FOR HOT WATER

Let's assume that you have plans already made for your new postwar home, but, they do not include the MODUFLOW SYSTEM. Show this diagram to your Architect or heating contractor, and if he wants additional information, tell him to write us. We'll answer "pronto."

¶ We are now going to discuss a SECTIONAL MODUFLOW HOT WATER HEATING SYSTEM. First, you will want to know what we mean by sectional. It is a method of distributing heat to the various parts of the house in such a way that each part is warmed in accordance with its individual needs. This you will recognize is in contrast to the current practice of trying to heat the entire house with one thermostat, on one wall of one room, at a uniform setting.

¶ Sectional heating is standard practice in all modern public buildings and has been so successful that it can be applied to homes at a cost within reach of everyone. The first step is to divide the house in two, three, or more sec-

tions, depending on its size. This diagram shows only two sections, but the principle for more is exactly the same. The average home has three natural divisions — (1) Service section (kitchen, laundry, etc.) — (2) Living room—dining room section, and—(3) a Sleeping section. The heat requirements of the three are distinctly different. No need to go into the details of why they are different, for they are so apparent to all of us.

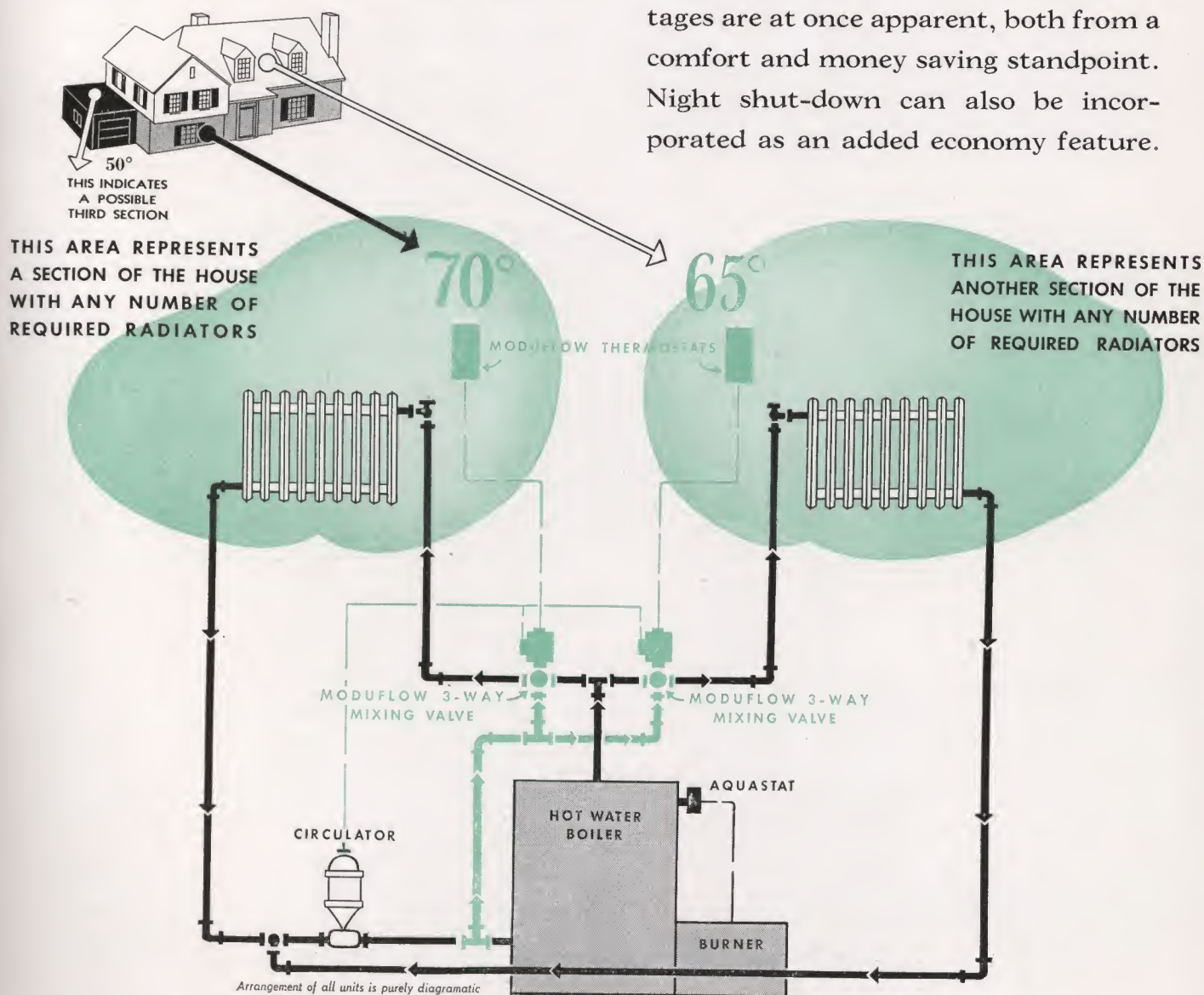
¶ The next step is to provide each section with the necessary MODUFLOW controls, which will maintain, automatically predetermined levels of heat for that section. Therefore, you can have one section cooler, while the other section is warmer, and reverse the order any time you desire, and the heat you save in one section can be utilized in the other. This results in a definite fuel economy.

¶ Let's follow the diagram on the opposite page. The green lines show the simple additions to your hot water heating system. All we did was to re-



place a conventional thermostat with a MODUFLOW-modulating thermostat, added a MODUFLOW 3-way mixing valve, and a short pipe line called a "bypass line", for each section. This is how it works. In each section the Moduflow supersensitive thermostat calls for heat. It sends an electrical message to the 3-way mixing valve, which opens its gates to admit hot water, the cooler return water from the radiators, or a combination of both—mixing it to the exact

needed temperatures before it goes to the radiators. But keep in mind the circulation of water is continuous, unless there is no demand for heat, in which case switches on the 3-way valves will shut off the circulator and burner. Also remember the water in the boiler is maintained at a constant temperature, providing a constant reservoir of heat. With sectional control, each section in the house appears to have its own heating system, and the advantages are at once apparent, both from a comfort and money saving standpoint. Night shut-down can also be incorporated as an added economy feature.





# CONVENTIONAL WARM AIR SYSTEM

If your present heating system is warm air, it is probably made up of these essential elements — (1) furnace — (2) burner (coal, gas, oil) — (3) fan — (4) conventional thermostat — (5) Airstat (safety control) — and (6) Furnacestat (fan control). The functions of (5) and (6) are usually furnished in a single combination control unit.

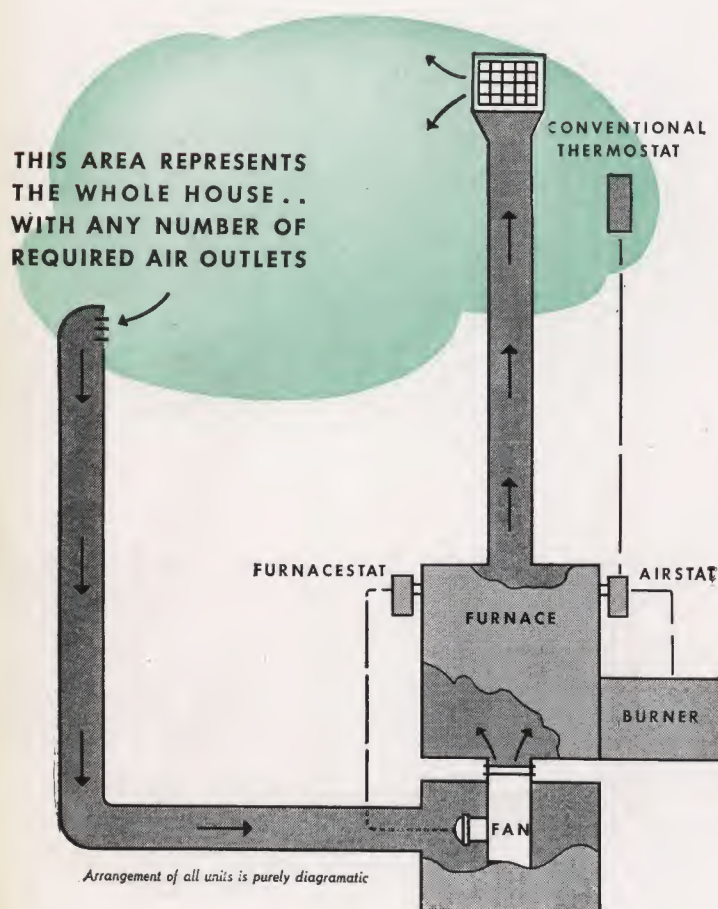
¶ Its operation is briefly this: When heat is required the thermostat sends an electrical message to the burner to “go on.” The warm air it has generated

is then forced by the fan through the ducts, and out the registers into the rooms of the house. The colder air is forced back to the return air registers, and starts its “merry go round” route all over again. When the room temperature has satisfied the thermostat it sends another message to the burner to “shut off.” Again we have what is known as the on-off intermittent type of heat distribution, with the system supplying either very warm air or no air.

¶ To prevent excessive temperatures in the furnace, the Airstat (safety control) stands by to shut off the burner, and takes precedence over the room thermostat. To prevent cold air circulating through the house, the Furnacestat starts the fan only when the temperature in the furnace is warm enough to send heat into the house, and continues to send heat as long as there is a heat supply in the furnace.

¶ The on-off operations inherent in this type of system, with all its disadvantages, are much the same as described under the conventional hot water system.

¶ The MODUFLOW SYSTEM of control will correct this.





## MODUFLOW CONTROL SYSTEM FOR WARM AIR

¶ How can MODUFLOW be applied to your warm air heating system? One method of MODUFLOW application is shown on this page.

¶ The green lines are the simple additions, and all we did was to replace the conventional thermostat with a Moduflow Thermostat, added a Reset Panel and a temperature sensitive bulb, located in a warm air supply duct, near, but not too close to the furnace.

¶ Here is how it works. Follow the diagram, shown below.

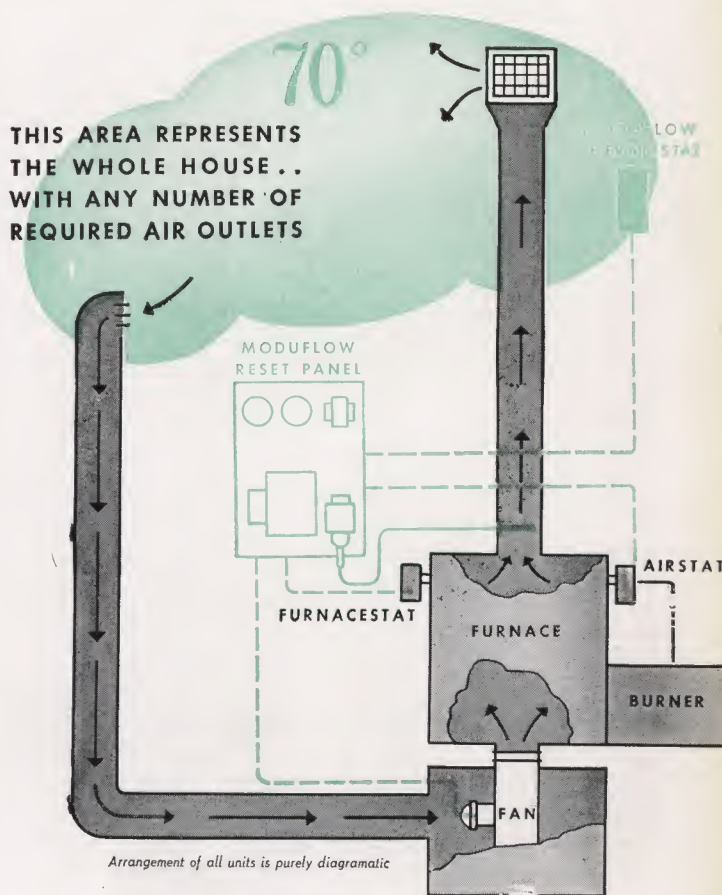
¶ The thermostat measures the rate of heat loss in the room, which is continuous, and sends an electrical message to the Reset Panel. The bulb, which is sensitive to the temperatures in the warm air supply duct, also sends a message to the Reset Panel. Then the Reset Panel goes to work. Upon receipt of the two messages, the panel immediately establishes the amount of heat which is to be delivered to the home for comfort. Comfort is of course predetermined by the occupants, through their original setting of the Thermostat. In other words, the Reset Panel is the "mastermind" that controls the burner, the fan, and the temperature of the air to be delivered to the room to create the comfort desired.

¶ More simply stated, this means that the Moduflow Reset method will deliver air to the registers at varying


temperatures, ranging from very hot to barely warm, and most important, air of the right temperature is always circulating. That's what you want.

¶ On the other hand, in mild weather when there is no demand for heat, a switch in the Reset Panel shuts off the burner and the fan, and the whole system is dormant. Night shut-down can also be incorporated as an added economy feature.

The illustration below shows only one method for installing Moduflow. There are others.







# MODUFLOW SECTIONAL

## CONTROL SYSTEM FOR WARM AIR

In discussing this subject, let us remind you again that if you are planning a postwar home, with a warm air heating system, consult your architect or contractor for the proper type of equipment to provide the advantages of continuous heat distribution. The diagram, on the opposite page, shows one method which is applicable to some types of furnaces. There are so many variations in warm air heating systems that it is impossible to diagram all in this booklet. This particular type of MODUFLOW SYSTEM may be applied to some furnaces—others may require different treatment to accomplish Moduflow Sectional Control.

¶ Much that has already been said will be repeated here, in the event that your preference is warm air heat, and you have hurriedly skipped over the previous discussions. However, this book is written without bias for any fuel or any type of heating system, for Minneapolis-Honeywell proudly serves the entire Heating Industry.

¶ What do we mean by Sectional? It is a method of distributing heat to the various parts of the house, in such a way that each part is warmed in accordance with its individual needs.

This is a new concept, and is in contrast to the current practice of trying to heat the entire house with one thermostat on one wall of one room at a uniform setting. Furthermore, it is in successful use today in most modern public and commercial buildings, and the principle is now to be applied to homes at a very reasonable cost.

¶ By Sectional we mean to divide the house into its natural divisions. There can be 2, 3 or more sections, depending on its size. A 3 way division might be—(1) the service section—(kitchen, laundry, recreation room)—(2) the living section—(living, dining, and study rooms)—(3) the sleeping section—(bedrooms, nursery, bath rooms). How you sectionalize is entirely up to you. The foregoing are only suggestions. The diagram on the following page shows only two sections, but the principle for more is exactly the same. In fact, it is the same as if the house were only one section, save for the addition of the necessary MODUFLOW controls.

¶ After you have determined the number of sections, then the next step is to provide each section with the necessary MODUFLOW controls, which will maintain automatically predeter-



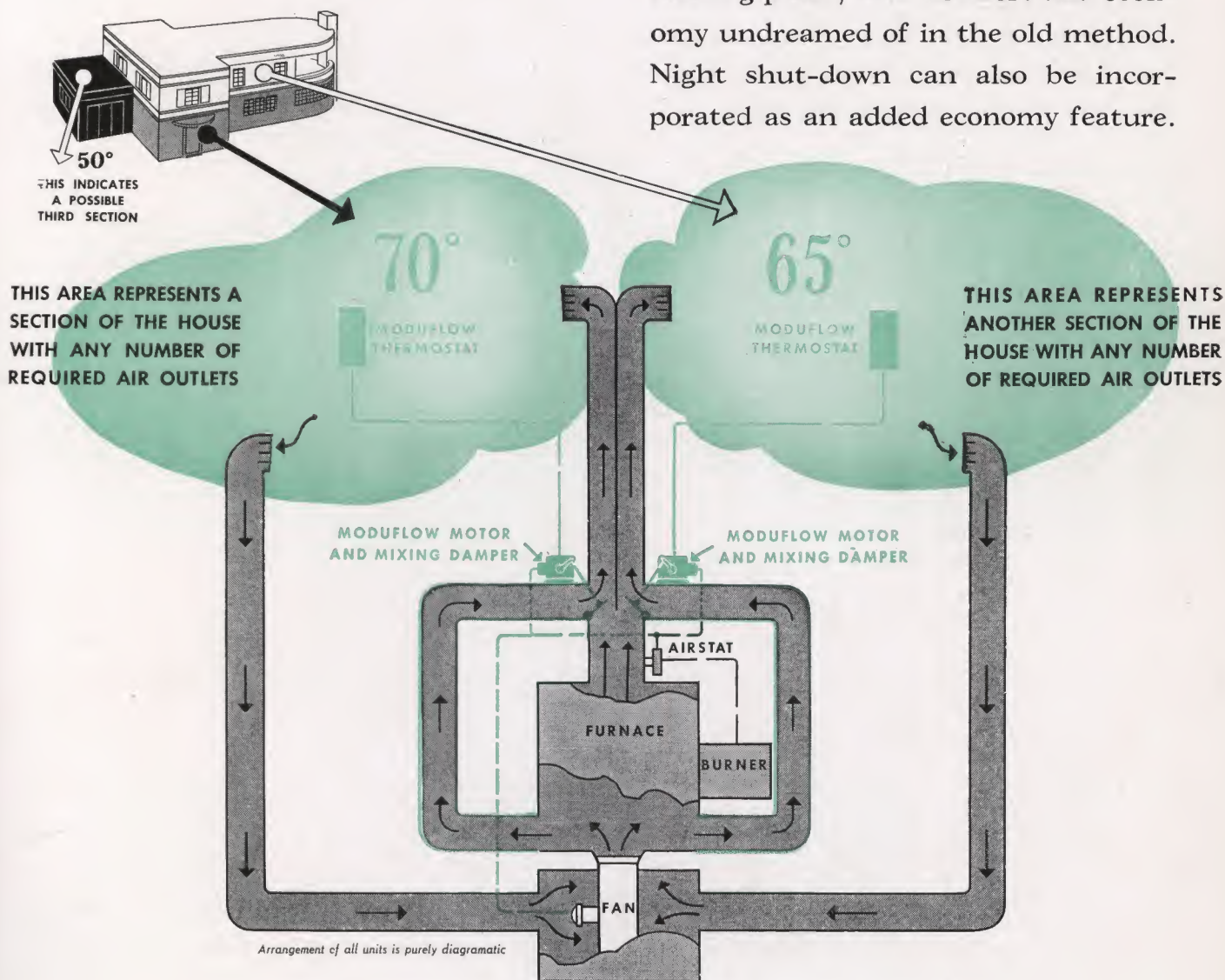
mined levels of heat for that section (see green portion of diagram).

¶ For a brief and simple understanding of how this MODUFLOW method works, let's follow the diagram below.

¶ The green lines are the simple additions, and all we did was to replace the conventional thermostat with a Moduflow-modulating thermostat, added a Moduflow damper motor and mixing damper, and a "by pass", for each section.

¶ In each section, the MODUFLOW supersensitive thermostat calls for heat. It sends an electrical message to the Moduflow damper motor, which operates the mixing damper. This damper mixes the air, taking the warm air from the furnace, the cooler return air, or a combination of both, to create the right temperature to be delivered to the registers.

¶ With sectional control, each section in the house appears to have its own heating plant, with comfort and economy undreamed of in the old method. Night shut-down can also be incorporated as an added economy feature.





## CONVENTIONAL STEAM SYSTEM

In the average existing home heated by steam, the operation is something like this (see diagram lower left). The thermostat stops and starts the automatic burner, in conjunction with a safety control called a "Pressuretrol," which limits the steam pressure in the boiler. Steam is delivered to the radiators as

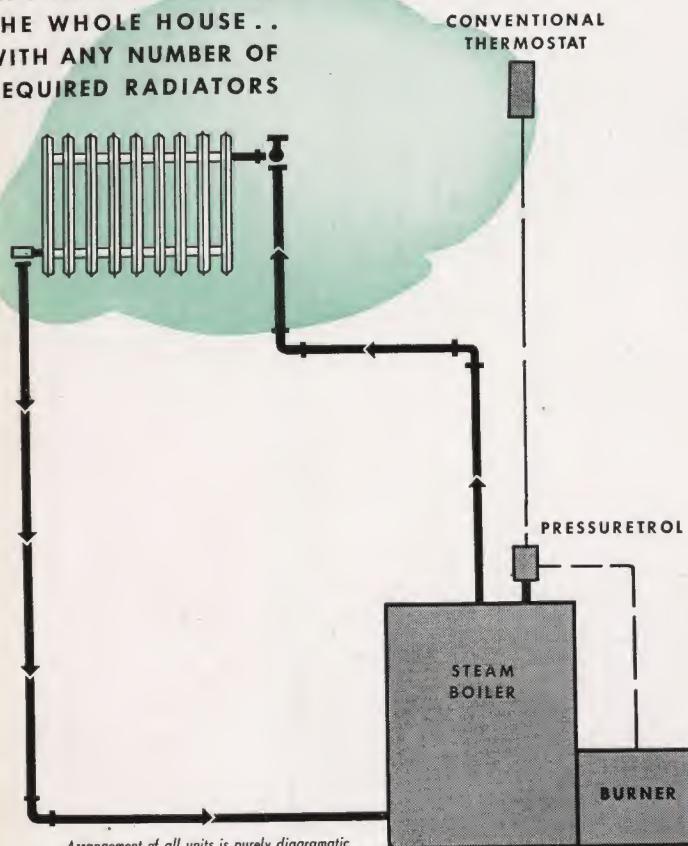
required to satisfy the conventional room thermostat, resulting in the same "on and off" system of heat distribution as described in the hot water and warm air systems. This, as said before, is not satisfactory in the light of what we know today. The MODUFLOW system of control can correct that.

## MODUFLOW CONTROL SYSTEM FOR STEAM

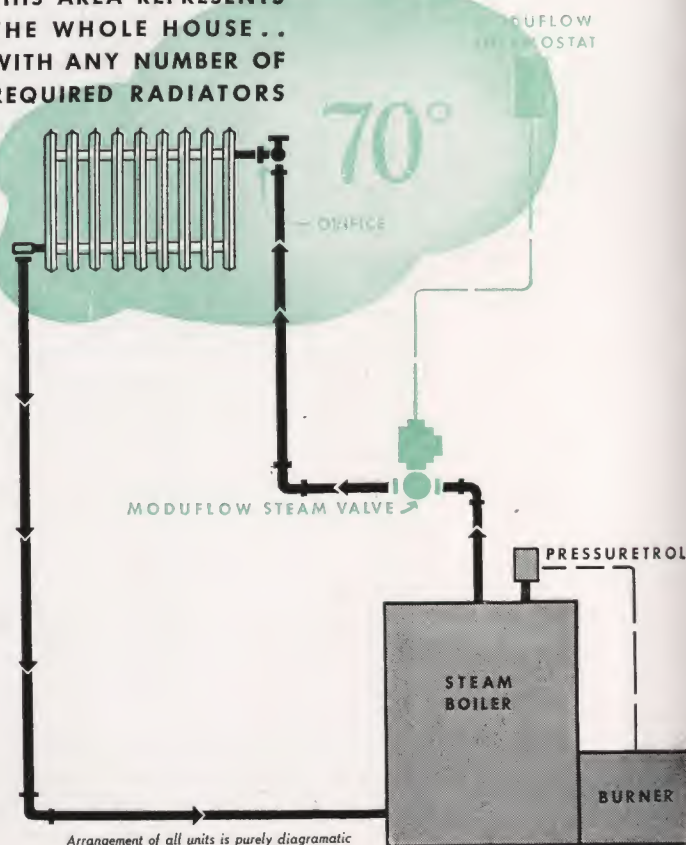
To convert your existing steam system to MODUFLOW is relatively simple (see diagram lower right). The green lines show the additions—namely, the substitution of a MODUFLOW thermostat for the conventional one now in use, and a modulating steam valve for the present valve in your line. Orifices (discs with small holes in them) are

placed at the intake connection of each radiator to equalize the distribution of steam so each gets its proper share, and when these three things have been accomplished, you have the new MODUFLOW Control System for postwar steam heating comfort . . . The modulating thermostat controls the MODUFLOW steam valve, which

THIS AREA REPRESENTS  
THE WHOLE HOUSE . .  
WITH ANY NUMBER OF  
REQUIRED RADIATORS



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THE WHOLE HOUSE . .  
WITH ANY NUMBER OF  
REQUIRED RADIATORS





opens to let just the right amount of steam pass through to give the radiators the right amount of heat. The Pressuretrol, shown in black, controls the burner to maintain a pre-determined head of steam in the boiler. An auxiliary switch on the modulating

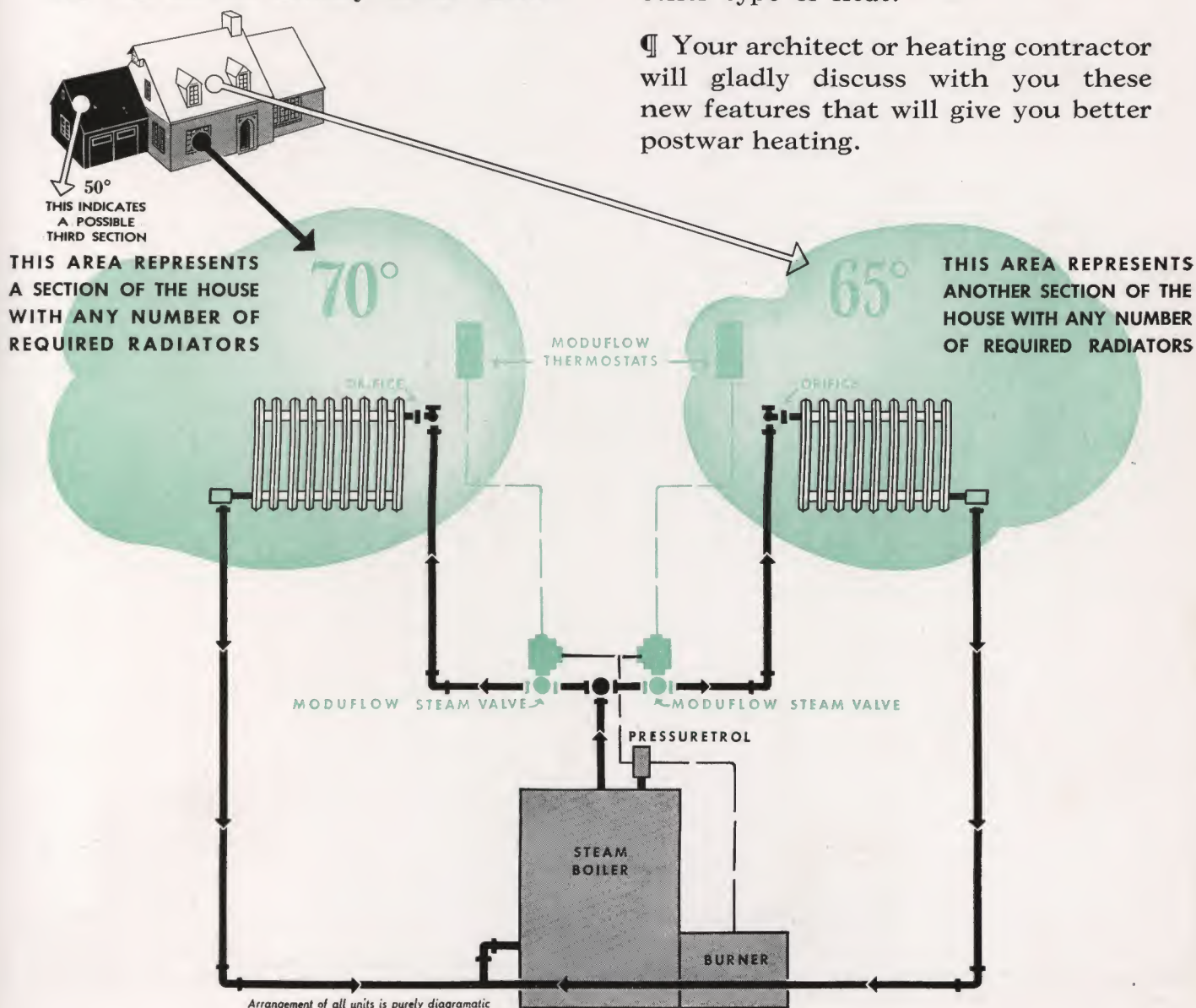
valve may be used to stop the burner whenever the valve reaches a closed position, indicating that comfort has been reached without further heat supply from the boiler. Night shut-down can also be incorporated as an added economy feature.

## MODUFLOW SECTIONAL CONTROL FOR STEAM

The diagram below represents a two section home heated with steam — MODUFLOW added. (See green portion of diagram.) It is quite likely you will want three or more sections. That's the way our homes usually divide them-

selves. In any event the application is just as simple as in a single section home — the advantages to be gained exactly the same — and just as readily obtainable with steam as with any other type of heat.

¶ Your architect or heating contractor will gladly discuss with you these new features that will give you better postwar heating.





# AIR CONDITIONING

Air conditioning systems in general use today in homes resemble in some details the warm air systems with ducts and air outlets. The application of MODUFLOW to these systems is just as easy as any other — the advantages exactly the same. Perhaps a word here about air conditioning, which has been universally misunderstood by the public at large, is in order.

¶ Air conditioning divides itself in two distinct applications—winter and summer. In the summer it cleans, cools, and removes moisture from the air that it sends through the house. In the

winter it cleans, heats, and adds moisture. In the case of winter conditioning the same warm air furnace will supply the warm air direct, or if a boiler is used, the hot water will be transferred to a heating coil, over which the air passes.

¶ For summer conditioning, cooling coils and some form of refrigeration are added, of which there are various types. The air conditioned home can also be sectionalized, as described elsewhere in this booklet, and MODUFLOW controls added to give the same big advantage.

## COST — A VERY IMPORTANT MATTER

Yes, we all agree—Cost is an important part of all that has been said so far. We all have to manage our budgets and make our purchases as judiciously as possible. Sometimes we have to evaluate one desire against another, and sometimes we are not as wise in that respect as we could be. We also agree that home heating is of prime importance to our well being, health, and comfort, and that only the best is good enough. Strangely enough, the best is also the cheapest, for it lasts longer, performs better, with a minimum of upkeep, and at the same time

yields the biggest dividends in money saved through efficient use of fuel.

¶ Unfortunately, we must deal in generalities for this purpose. However, it might be fairly stated that the MODUFLOW SYSTEM of control as described in the foregoing pages, will cost no more than a good refrigerator . . . . . Spread over the life of your home, it amounts to no more than a few cents a week. Of course . . . each additional section placed under control will cost about the same.



# PERSONALIZED HEATING CONTROL FOR APARTMENTS

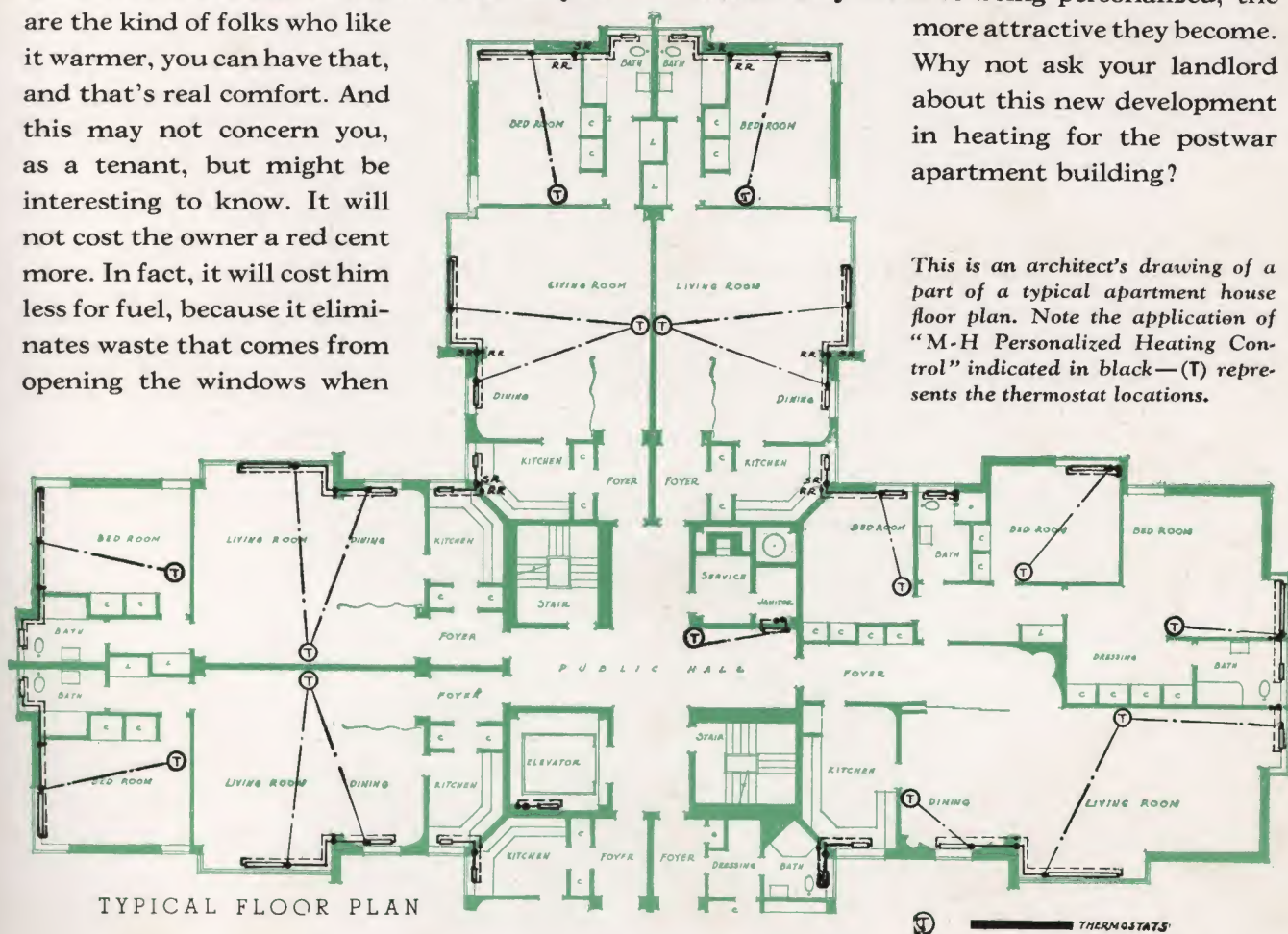
PERSONALIZED—a very interesting word—full of human interest because it identifies itself solely with ourselves. NOW, we are going to get personalized heating control for our apartments. Just as you select your own furniture, rugs, drapes, and knick-knacks to express your own personality in your home, so you can select the right temperature to satisfy your own personal comfort. No longer will you have to be governed by your neighbors' desires in heating comfort, or that of the fireman or janitor. If you like your apartment cool, you can have that. If you are the kind of folks who like it warmer, you can have that, and that's real comfort. And this may not concern you, as a tenant, but might be interesting to know. It will not cost the owner a red cent more. In fact, it will cost him less for fuel, because it eliminates waste that comes from opening the windows when

it's too hot for comfort, and it will make his apartments easier to rent. There are other savings, too, which we will not mention here.

¶ The application is the same as that described under Sectional Control with MODU-FLOW. In small apartments you can have single section control—in the larger, you can have the service, living, and sleeping portions controlled—the same as in a fine, single residence. After all, an apartment house is only a number of individual dwellings, and the nearer they come to being personalized, the more attractive they become.

Why not ask your landlord about this new development in heating for the postwar apartment building?

*This is an architect's drawing of a part of a typical apartment house floor plan. Note the application of "M-H Personalized Heating Control" indicated in black—(T) represents the thermostat locations.*







We hope you have found the booklet interesting and informative, and that because of it you not only know more about your present heating system, but will want to improve it with MODUFLOW when materials are no longer needed for our fighting forces. In the meantime — plan and save. With the purchase of these bonds you can start right now to plan that new home, or to modernize your present one. In doing so, your first consideration should be quality — comfort heating in the modern manner.

## MINNEAPOLIS·HONEYWELL REGULATOR COMPANY

Minneapolis, Minnesota

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*Second printing—January 1944*

*Third printing—February 1944*

*Fourth printing—March 1944*

*Fifth printing—May 1944*

*\* Sixth printing—November 1944*

*Seventh printing—January 1945*

*Eighth printing—March 1945*

*Ninth printing—September 1945*



*Your  
New Home*

**DESERVES THE  
FINEST PLUMBING SYSTEM  
AVAILABLE**

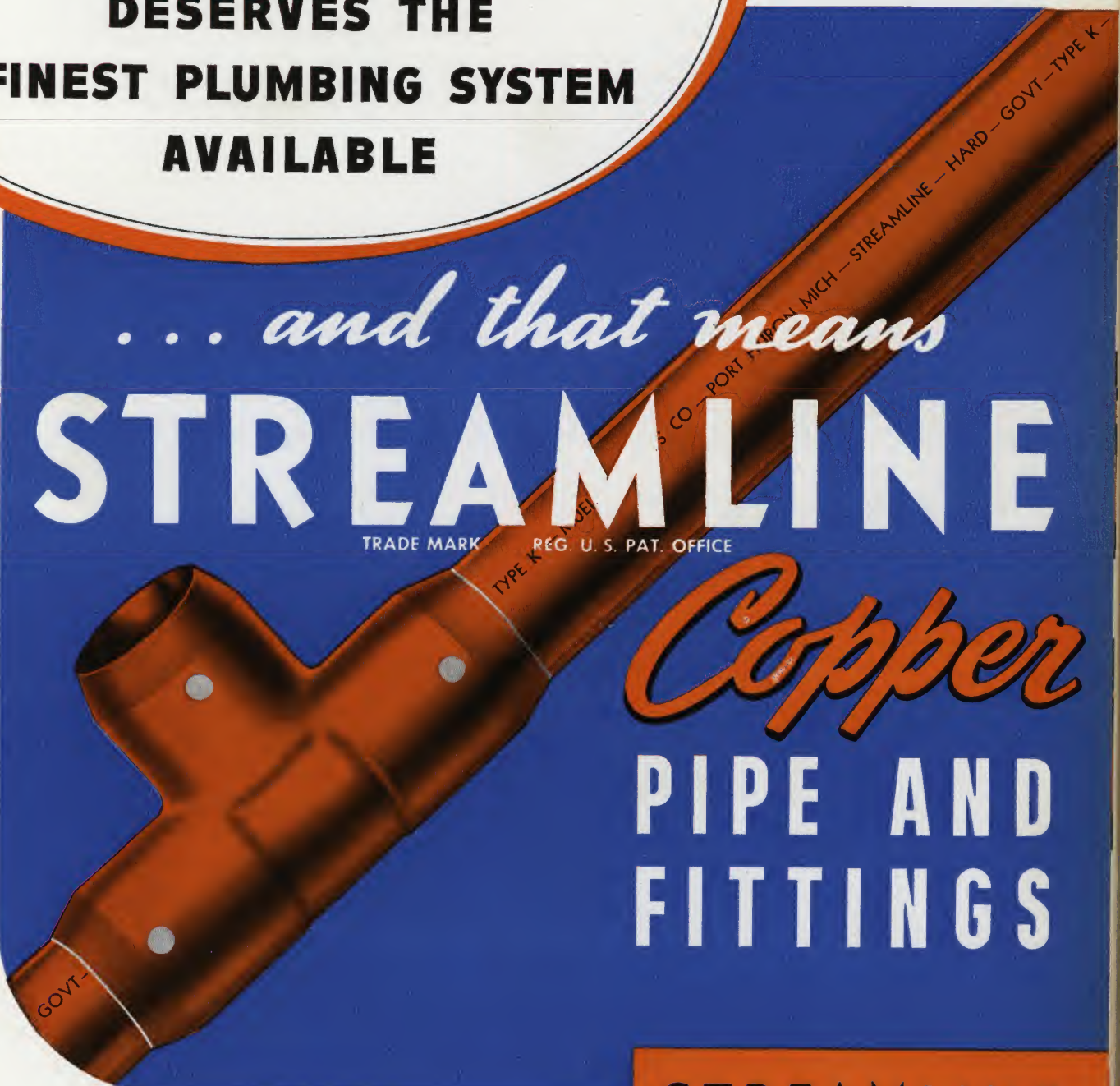
*... and that means*

**STREAMLINE**

TRADE MARK REG. U. S. PAT. OFFICE

*Copper*

**PIPE AND  
FITTINGS**



**STREAMLINE**  
PIPE AND FITTINGS DIVISION  
**MUELLER BRASS CO.**  
PORT HURON, MICHIGAN



# COPPER

## Everlasting Metal of the Ages

Copper is one of the oldest metals known to man. Throughout history it has been employed in innumerable ways to serve his purposes not only as weapons, ornaments and household utensils, but also as a building material.

Wherever we find authentic records of early civilization, we find that copper has always been preferred where metal of an enduring quality was necessary. There is still in existence copper that was used in ancient Egypt for conveying water 5400 years ago. In spite of the passing of nearly 60 centuries, this pipe remains in good condition and could still be used for the purpose it was originally intended to serve.

Copper arrow heads are dug from the earth, in a good state of preservation after centuries have rolled by.

Copper keels and bolts from stranded ships, subjected to the action of briny sea water for years, are salvaged in a perfect state of preservation.

During recent excavations in Pompeii which was covered with lava and ashes in the year 70 A. D. by an eruption of Vesuvius, copper pipe was unearthed, which was in such good condition that it could still be used today, after eighteen centuries have passed.

Until a few years ago copper pipe for plumbing purposes was comparatively rare in America, but thick walled copper pipe had been in use in the British Isles and Europe for about a hundred years.

Until a few years ago the method of joining lengths of this thick wall copper pipe was by threading them so that they could be screwed into the connecting fitting. Threading pipe reduces its thickness at the point where the connection is to be made. Consequently, the pipe has to be thicker than required in actual service so that it can be threaded and still leave enough wall thickness for conducting purposes. A foot of thick wall copper pipe weighs more than a foot of light wall pipe; consequently, its cost is greater per foot in proportion. This, of course, made the copper pipe so expensive that it was out of reach of the home builder of ordinary means.

The problem to solve was to develop a different method of joining the pipe so that its excess thickness could be eliminated.

With these facts in mind and after several years of experimentation, our engineers invented what is now internationally known as the STREAMLINE Solder Fitting. This fitting successfully solved the problem because it permits the use of thinner walled copper pipe. This pipe, although having a thinner wall, is more than thick enough to withstand anything that might be encountered under service conditions. This fitting is connected to the pipe by soldering by an ingenious and revolutionary method which produces a joint of extraordinary strength and leak-proof qualities.

### STREAMLINE COPPER PIPE

STREAMLINE Copper Pipe does not rust. On the contrary iron or steel pipe does rust and the rust while corroding the pipe also builds up an accumulation on the inside. As a matter of fact, iron rust occupies about ten times as much space as metallic iron. The iron rust gradually clogs the pipe until its waterway is almost, or even completely, eliminated. The result is a gradual diminishing of the water supply, and this supply contains impurities which are carried through the faucet by the flow of the water.

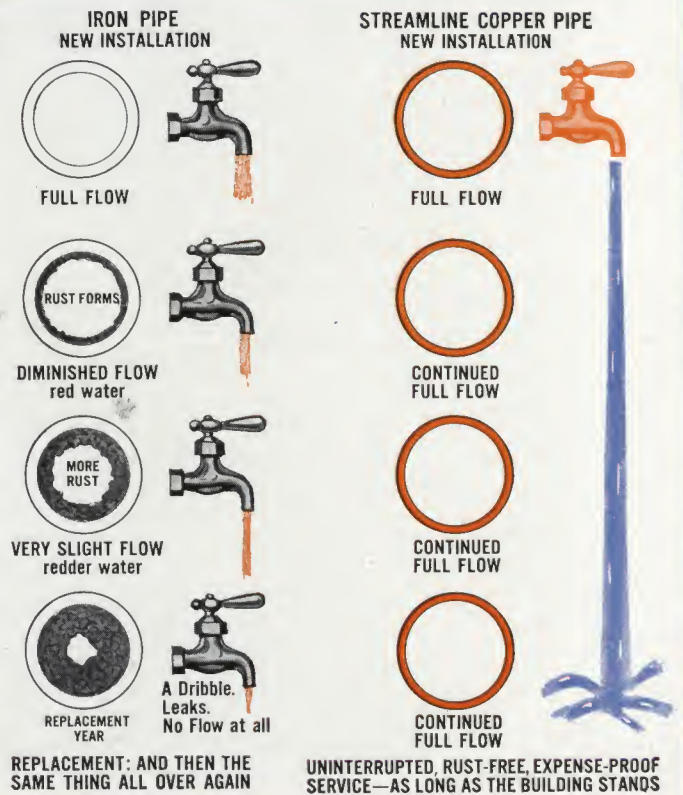
When rust once starts to accumulate in the interior of iron or steel pipe, it acts as an anchorage for other foreign matter which is present in practically all waters. Consequently, the interior becomes filled with a jelly-like mass of foreign particles combined with rust.

You've seen bathtubs that took an hour to fill, rust-stained water that colored the laundry—and heating systems that, no matter how much fuel was burned, failed to deliver a comfortable room temperature. In a great majority of cases this is due to rusted, clogged pipes.

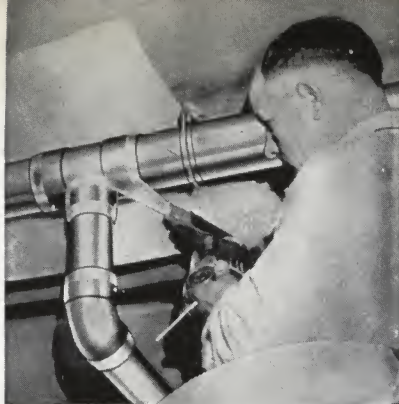
THE FLOW CAPACITY OF AN INSTALLATION OF STREAMLINE COPPER PIPE AND FITTINGS CONTINUES TO BE UNIFORM AND FREE, DELIVERING A MAXIMUM FLOW YEAR AFTER YEAR. HEATING SYSTEMS ARE MAINTAINED AT THEIR MAXIMUM EFFICIENCY.

The illustration to the right gives a clear idea of what actually happens in rustable pipe as compared with a STREAMLINE Copper installation.

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**MUELLER BRASS CO.**  
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# HOW A JOINT IS MADE WITH COPPER PIPE AND STREAMLINE FITTINGS..

TRADE MARK REG. U. S. PAT. OFFICE



A STREAMLINE Solder Fitting, as the name implies, is connected to copper pipe by soldering and with the aid of one of nature's laws which we call capillary attraction. Capillary attraction is a property liquids possess of rising or being drawn up between clean, close fitting surfaces.

Here the plumber has assembled some copper pipe and STREAMLINE Solder Fittings, and in the first illustration is heating the joint with a blow torch until it becomes hot enough to feed in the solder.

He then removes the torch and inserts wire or stick solder through a feed hole in the fitting. The solder coming in contact with the heated fitting becomes liquefied and is drawn in by capillary attraction and thoroughly bonds the pipe to the fitting. Owing to the never-failing law of capillary attraction, the solder is drawn in, down or up regardless of where the feed hole is located, always provided that proper conditions of tolerance and cleanliness are present. While the pipe and fitting shown in these illustrations is larger than that used in an ordinary residential installation, it serves to show more clearly how the joint is made.

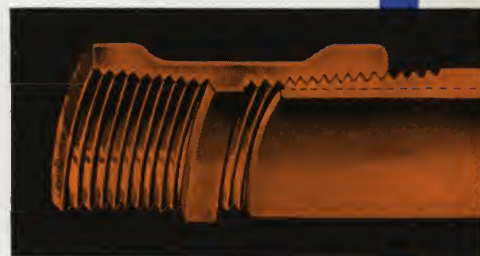
When the work is properly done by plumber or steam-fitter, connections are made that are enormously strong and permanently leak-proof.

## The OLD Method

Before the invention of the STREAMLINE Solder Fitting, practically all pipe, whether copper, brass, iron or steel, had to be threaded into the fitting to make a connection. Owing to the thick wall of copper and brass, it was very expensive, yet it had to be thick to cut a thread to connect it to the fitting, so that all the unthreaded portion was mostly expensive excess metal which rendered no service for its extra cost. Iron and steel pipes were subject to rust and leaky joints through corrosion and vibration. Their exposed threads inside the pipe often became anchorage points

Why it is  
expensive  
and inferior!

for the building up of rust and other accumulation in the water. Sooner or later it had to be replaced.



## The STREAMLINE Method

This illustration shows a piece of copper pipe connected with a STREAMLINE fitting. The pipe has been cut away so you can actually see the end of the pipe where it fits inside the fitting. Also, visible is the solder where it has filled the feed hole and where it has bonded the outer surface of the pipe to the inner wall of the fitting. Now as explained above, since this pipe is not threaded to connect and carries no extra wall thickness for that purpose, but is joined by this new unique method, only that wall thickness required in actual service is used and that is all that you pay for. Since the copper pipe won't rust, it doesn't need an extra heavy wall and it is made hard enough by working to withstand any abuse which might affect it in service.

Why it is  
superior  
and lasting!

With the old method of connecting, the joint was really the weakest point in the whole system, while with a STREAMLINE installation it is actually the strongest.



Coupling



Tee



45°  
Elbow

Illustrated here are three STREAMLINE fittings that are commonly used, the coupling, the 45° elbow and the tee. Although these are but three of the many thousands of fittings which comprise the complete line for all different piping purposes, they will give you a fairly good idea of just what a STREAMLINE fitting is and what it looks like. The small holes in the fittings are called solder feed holes, and as the name implies, are for feeding in the solder to bond them to the pipe.

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**MUELLER BRASS CO.**  
PORT HURON, MICHIGAN



# STREAMLINE PIPE AND FITTINGS GIVE YOU

all these Advantages . . .

**LEAK-PROOF**—When an installation of STREAMLINE Copper Pipe and Fittings are installed by a capable plumber, you need have no cause to worry about leaks. Leaks between ceiling and floor or behind walls due to faulty workmanship may be a very serious and expensive matter. They may do many dollars

worth of damage, not only to the walls or ceilings, but to the furnishings of the house as well, to say nothing of the inconvenience and expense of repair. Owing to an exclusive feature of the STREAMLINE Solder Fitting, the plumber can visually tell when the joint is leak-proof even without testing it.

**RUST-PROOF**—An installation of STREAMLINE Copper Pipe and Fittings is rust-proof. There will

be no rust-stained laundry, bathtubs or lavatories.

## FREE FLOW OF WATER

Since STREAMLINE Copper Pipe does not rust, and since it offers the greatest possible resistance to clogging, a full flow of water is permanently assured. Hot water

runs quicker and hotter. Radiators do an efficient heating job. A non-rusting heating system is your best insurance against excessive fuel bills.

**INEXPENSIVE**—STREAMLINE Copper Pipe and Fittings for your plumbing system cost very little, if any more than rustable materials; in fact, so little that it is hardly worth considering, because under normal water

conditions it will give you peak service for the life of the building. Considering that there will be no future repair bills, STREAMLINE actually costs less than rustable piping.

## *Consult your Architect or Contractor*

Be sure that your architect draws up the specifications to include STREAMLINE Copper Pipe and Fittings. When your architect specifies STREAMLINE, make sure that your contractor actually installs it. Do not allow any substitute. Insist on genuine STREAM-

LINE. It is marked for your identification. Even though your present plans may call for "ordinary" pipe and fittings, you can change to STREAMLINE.

## *Consult your Plumbing Contractor*

Your plumbing contractor is an experienced and capable mechanic. The great majority of plumbing contractors have already installed STREAMLINE in many buildings. They know how efficient a STREAMLINE system is. They also know that, once they have installed it, they will have no complaints from you.

Remember too, that no matter how modern and expensive your bathroom and kitchen fixtures may be, their effectiveness depends upon a permanently reliable piping system.

## *For Modernizing your Present Home*

If your home at present is equipped with the rustable type of pipe and fittings, it is probably beginning to give you trouble. If not now, it is inevitable, that in a comparatively short time, it will. The pipe will clog, rust, leak and deliver impure and rust-stained water. Why not for safety's sake have the present worn-out system replaced now with STREAMLINE Fittings and Copper Pipe . . . have it done before the damage happens. Don't make the mistake of replacing the worn-out plumbing or heating system with another system of rustable pipe and fittings that will again in a few short years begin to give you trouble.

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GET ACQUAINTED  
*with your*  
KITCHEN





*Youngstown Kitchens*  
by *Mullins Manufacturing Corporation*  
WARREN, OHIO



GET ACQUAINTED WITH

# Your kitchen

*This book is dedicated to all American housewives who, in their tremendously important task of rearing the American family . . .*

*Walk 3,000 miles a year at home\**

*Spend 9½ years of their life cooking*

*Cook more than 57,000 meals*

*Wash 26,280 dishes a year*

MANY HOUSEWIVES, realizing what the daily kitchen routine adds up to in steps and time, long for the step-saving features and extra hours of freedom that a modern kitchen can give. But, they are baffled by the problem of trying to fit the equipment they want into the wall and floor space of their present kitchen or into the space provided in their new home plans.

The purpose of this book is to help women get acquainted with their kitchens, whether in new homes or old, and to show them how easily and inexpensively they can have convenient work rooms.

Illustrated on pages 4 to 11 are "Before and After" kitchens that reveal how women have transformed old, tiresome kitchens into beautiful, convenient ones that reduce drudgery by as much as 30 per cent. We believe this book will provide hundreds of helpful ideas to housewives who wish to modernize their kitchens or plan kitchens for new homes.

*\*Figures from an article by Judith Chase in Collier's. Based on a family of four.*





# Your Right to Plan

A KITCHEN should suit the tastes and needs of the housewife who is going to use it. No one knows better than she what is needed to fit her working habits. Yet seldom does she have the opportunity to plan her own kitchen—the workshop in which she spends so much time. Usually she is given a room containing a sink and some cupboards—placed wherever someone else thought they should be. By the time she has added a range, refrigerator, and perhaps a table, the result usually is not what she wants—just something that must be endured or remodeled.

## *Why Hesitate to Remodel?*

THOUSANDS of American Housewives have kitchens that are wrong because they do not know how easy and inexpensive it is to make them right. They fear that modern, steel kitchen equipment will not fit their present room or that walls, doors or windows will have to be changed. They have visions of kitchens being torn up for several days and they haven't the faintest idea how to make a remodeling plan or where to turn for assistance.

## *Youngstown Units Make it Easy*

THE manufacturers of Youngstown Kitchens recognize this problem and offer housewives a standard line of YOUNGSTOWN Kitchenaiders (to replace old-fashioned sinks) plus wall and base cabinets in such a wide variety of sizes that a combination can be made to suit any need.

YOUNGSTOWN'S pioneering has provided kitchens that can be *planned completely* and then purchased *piece by piece* over a period of time, if so desired.

In this method of installation, it has been found most satisfactory to plan the complete kitchen before any cabinets are bought. In this way, the housewife may be sure that each cabinet is the right size and is placed in the right location to give the same convenience and appearance as in the kitchen completed in one installation.

YOUNGSTOWN provides all-steel equipment, factory finished in porcelain and white enamel, ready to install in a few hours.

YOUNGSTOWN'S national trained dealer organization puts kitchen planning experts at your service, on the spot. There are no plans to pay for and no waiting for factory service.

YOUNGSTOWN'S production methods mean prices that are surprisingly low, because YOUNGSTOWN kitchen units are made like automobiles, refrigerators, washers, stoves and other popular home appliances.



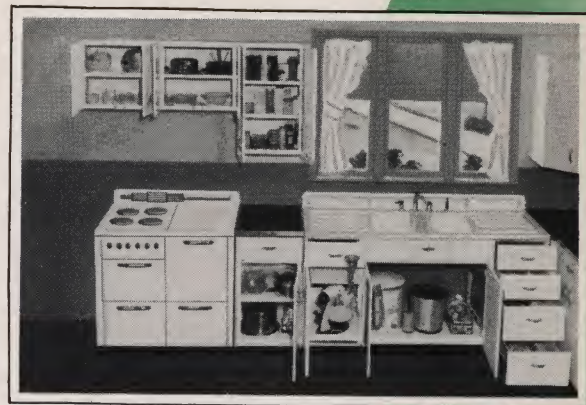
*Plenty of Work Surface + Plenty of On-the-Spot Storage Space  
+ Good Arrangement of Utensils = An Easy-to-work-in Kitchen.*





### *Adequate Work Surface*

**W**HETHER planning a kitchen in a new home or remodeling an old one, three important elements must always be considered. The first of these is adequate work surface. When washing dishes or preparing food for cooking and serving there must be plenty of room for the dishes, glassware, bowls, pans, silverware and other utensils. Work is never easy when these items are crowded together. Since the work is distributed between stove, refrigerator and Kitchenaid, it is necessary to have some work surface close to each. Note in the illustration at the right how YOUNGSTOWN Kitchenaiders and base cabinets provide this work surface.



### *On the Spot Storage*

**H**UNDREDS of steps can be saved every day by having on-the-spot storage space at the Kitchenaid, range and refrigerator. The busiest kitchen can still be neat and orderly when there is plenty of storage space within arm's reach. YOUNGSTOWN units provide this on-the-spot storage. They are like faithful servants that hand the housewife what she needs and then takes it again when she has finished.

### *Proper Utensil Arrangement*

**A**FTER providing enough work surface and sufficient storage space, the housewife can easily plan the proper arrangement of her kitchen utensils.

No matter how modern it is, a kitchen still is not a step-saver until utensils are kept near where they are used. The small investment necessary to provide cutlery for each work surface, plus sugar, flour and condiment containers for each spot where they are frequently used will more than pay for itself in steps saved. Any housewife, by a simple study of her kitchen working habits, in connection with her arrangement, can determine for herself what she needs.

### *Get Acquainted Now*

**O**N the following pages are illustrations showing how women have planned and remodeled their old kitchens. YOUNGSTOWN Kitchenaiders and YOUNGSTOWN base and wall cabinets have transformed antiquated, poorly arranged kitchens into modern, sanitary, step-saving rooms for food preparation and service. This has been accomplished without making any extensive wall, door or window changes.

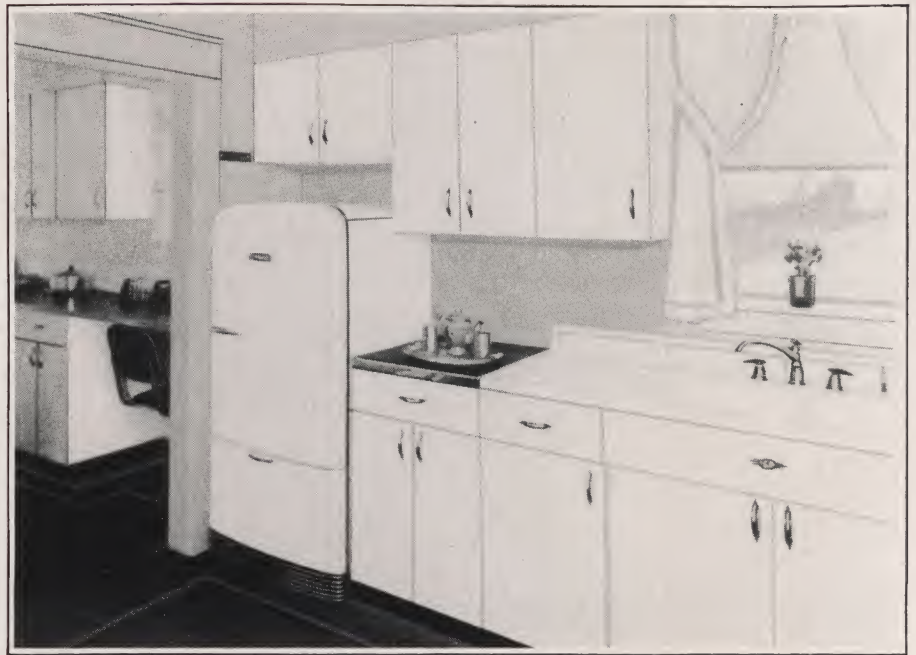
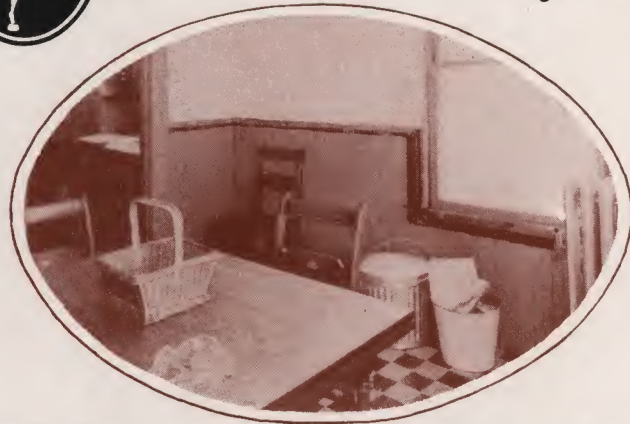




# Most Kitchens Faults are

## *Youngstown Kitchens*

### *by Mullins*



**A**N INTERESTING EXAMPLE of a complete change of room function without any structural change—the dining room has been converted into the kitchen and the original kitchen has been changed into a planning center and storage room.

The dismal wooden equipment has been replaced by beautiful, streamlined YOUNGSTOWN cabinets and a Kitchenaid 66" Twin with two bowls and two drainboards. Relocating the sink and refrigerator saves many steps and also provides a combined work surface for the two units.

The original sink location becomes the attractive planning center, flanked by YOUNGSTOWN wall and base cabinets which afford a wealth of storage space.



## *Youngstown Kitchens*

ARE



# Easily Corrected

WHERE WERE DISHES, pots and pans kept in this "Mystery" kitchen before it was remodeled? Where could one mix a cake or make a pie? Where were the dishes stacked for washing?

Notice how the remodeled YOUNGSTOWN kitchen with its Kitchen-aider and the base cabinet provide abundant work surface and storage space. The dust-catching shelf has been replaced by spacious, white enameled steel cabinets.

The clothes washer has been moved and a YOUNGSTOWN wall cabinet installed

for laundry supplies — making a compact, convenient laundry center.





# *New Kitchens for Old . . .*



**O**NE KNOWS AT A GLANCE that it was very difficult to work in this "Before" kitchen with its inadequate, open cupboards, scant storage space and hard-to-clean surfaces.

The remodeled kitchen, beautiful, efficient and neat as a pin, demonstrates what can happen when a housewife does her own planning.

Only minor structural changes were necessary to provide a perfect background



for YOUNGSTOWN units. Better light is provided by placing the Kitchenaid under the window. What-Not shelves on each side add an attractive note. The unbroken line of YOUNGSTOWN wall and base cabinets gives storage space and work surface for every need.

*Youngstown Kitchens* **ARE**





THE "BEFORE" KITCHEN in the oval was above average in dish-washing convenience. It had some work surface and considerable storage space, yet there were many unsanitary and inconvenient features.

The cracks around the undersink doors permitted dust and dirt to enter. The space under the sink was "prettied up" with the curtain, but that did little to keep it clean and make the space useable. The ill-fitting wooden drainboard was filled with holes and cracks which filled with grease and water.

Contrast this with the sanitary YOUNGSTOWN 54" Deluxe Kitchenaid. All storage sections are raised from the floors. Doors and drawers are close fitting. The

Kitchenaid has a one-piece, porcelain top that is as easy to keep clean as a china dish. Incidentally, this housewife likes to use rubber tray pads to protect the surface, but that is not necessary because the porcelain top will stand any ordinary usage without damage.

Note, too, that storage space has been increased, even though the top shelves are within reach, instead of being up near the ceiling. And the YOUNGSTOWN units fit the space perfectly, without even a change in the plumbing.





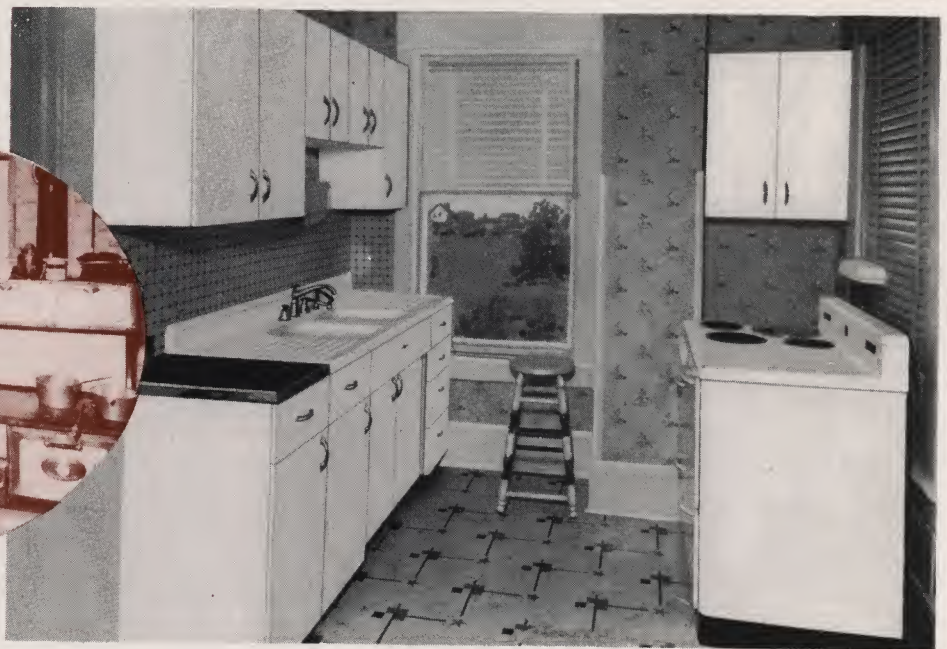
# Practical Planning

**W**ITHOUT A SINGLE STRUCTURAL CHANGE, the kitchen in the oval was transformed into the delightful work room shown through the use of standard YOUNGSTOWN units. No, it wasn't done with magic. Look closely and you will see that not even the baseboards were changed. The old kitchen cabinet was replaced by a Kitchenaid 66" Twin, a base cabinet and four gleaming white, spacious wall cabinets. Notice, particularly, how neatly the Wall Cabinet by the stove fits into the niche between chimney and window. YOUNGSTOWN'S system of standard widths makes it possible to fit easily almost any space.

Note the toe space at the foot of the Kitchenaid and the base cabinets and the recessed doors beneath the bowls. This makes it easier to stand close while working, eliminating fatigue.

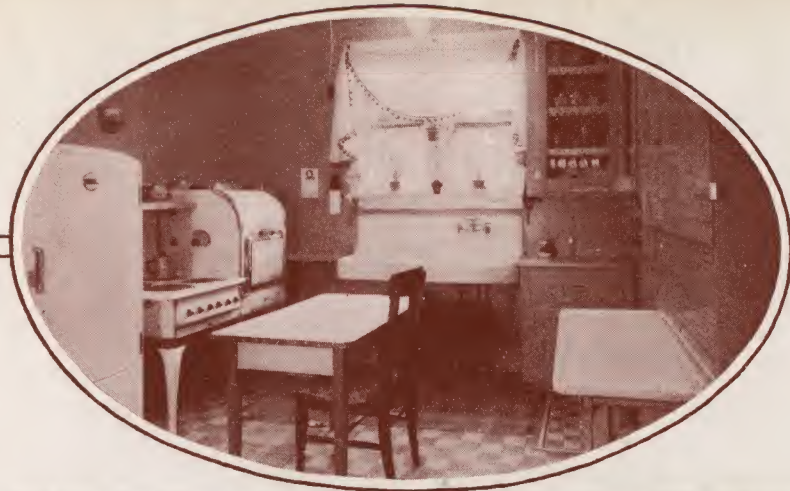
This housewife has placed the towel rack between the Wall Cabinets above the sink.

Venetian blinds at the windows, new linoleum on the floor, attractive, new wall paper and white woodwork finish the job of converting a dreary room into a kitchen any woman would be proud to own.



Youngstown Kitchens ARE





**I**N ITS DAY, this "Before" kitchen was far above the average. But its day has passed. The two photographs show plainly how far kitchen thinking and planning have progressed since the old-fashioned sink and high, hard-to-clean wooden cupboards shown in the oval were installed.

YOUNGSTOWN Wall cabinets place even the top shelf within easy reach, yet provide much more storage space.

The YOUNGSTOWN Kitchenaid 54" Deluxe occupies the same space as the old-fashioned sink, but what a difference in usability and appearance! The tile-like wall finish makes a good splashback for the base cabinets, and the continuous work surface makes the table unnecessary and leaves more floor space.





# Housewives



**Y**OUNGSTOWN kitchens are as different from each other as are the housewives who design and use them. They reflect individuality because they are created to satisfy particular tastes and desires.

Illustrated here are typical YOUNGSTOWN installations in new and remodeled kitchens. All were designed by housewives.

All are different, yet they are assembled from standard YOUNGSTOWN units.

- ① A beautiful YOUNGSTOWN kitchen in a new home. This is a style that lends itself to kitchen remodeling where the wall space is unbroken. The room is not large yet the number of YOUNGSTOWN cabinets shown gives an impression of roominess.
- ② This YOUNGSTOWN service unit fits perfectly into the alcove. The Kitchenaid 66" Twin and the wall cabinets provide extra working surface and much-needed storage space within arm's reach of the stove and table cabinet.
- ③ Another use of the Kitchenaid 66" Twin, with a continuous linoleum top that is coved against the wall. The splashback is unusually high. Most women prefer either the four-inch or eight-inch splashback.





# Planned These Youngstown Kitchens

- 4 Note the wall cabinet with the unusual angle shelf arrangement to accommodate taller than usual articles in this fine YOUNGSTOWN kitchen.
- 5 This tiny kitchen is easier to work in than an old-fashioned kitchen three times as large. Plenty of storage space and continuous work surface make it a pleasure to use. The Kitchenaid is the 48" Twin with a deep bowl for laundry purposes and a sliding drainboard.
- 6 Work surface galore and many cubic feet of storage space resulted from this housewife's selection of the Kitchenaid 66" Twin and matching cabinets. The open wall cabinet shows how many dishes can be neatly arranged in YOUNGSTOWN cabinets.
- 7-8 Two illustrations of the same kitchen. A Kitchenaid 54" Deluxe has been selected and there are two corner wall cabinets, each one containing more space than the average refrigerator. For example, one of them will hold 169 dishes.

YOUNGSTOWN equipment is made in such a variety of widths that it can be easily adapted to any size or shape of kitchen.



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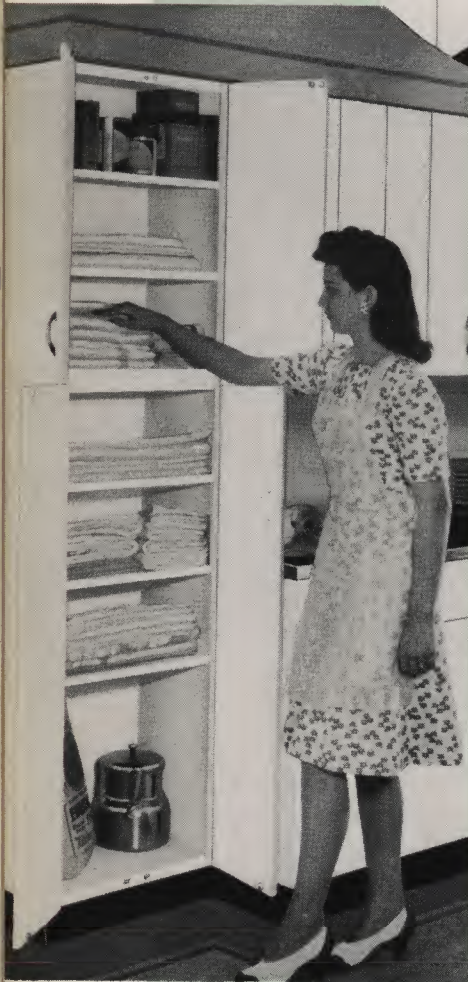
*Extra Value*



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2



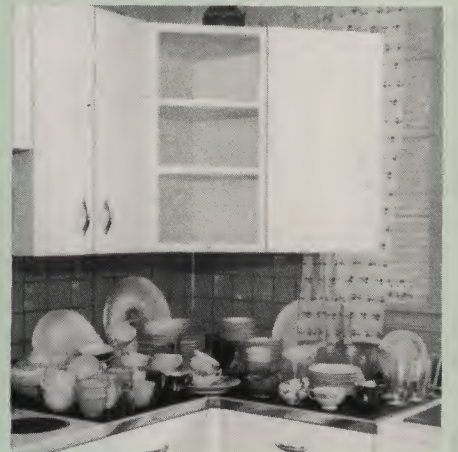
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*Youngstown Kitchens ARE*



# In Your New Youngstown Kitchen

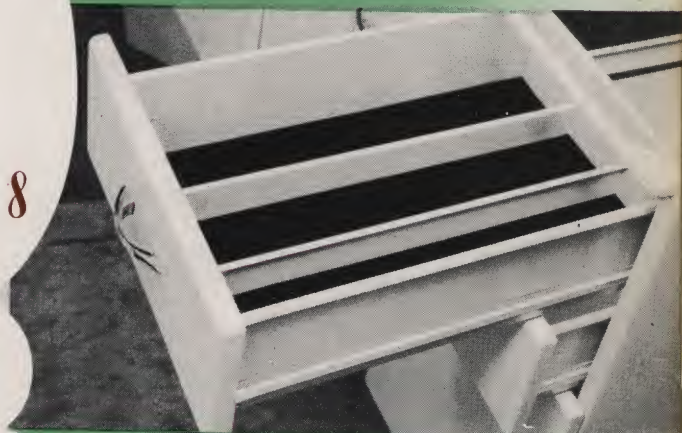
*Every housewife needs special features in her kitchen to meet her individual needs. Here are some of the EXTRA values she finds in YOUNGSTOWN kitchens:*

- 1 A removable container for bread or cake that fits either the base cabinet drawer or the Kitchenaid drawer.
- 2 A wall cabinet with angle shelf arrangement to hold tall bottles, vases or pitchers. The cabinet shown is 36" wide and 30" high. It is also available in 18" height.
- 3 Linens, staples and oversized utensils can be stored in this seven shelf utility cabinet.
- 4 A utility cabinet for cleaning equipment also has two shelves for general use.
- 5 Here's a sliding, removable container with sifter outlet for flour or sugar.
- 6 This corner wall cabinet contains nine cubic feet of storage space and will hold the 169 dishes shown.
- 7 The removable wooden cutting board is sturdy enough to hold the food grinder. The sliding enameled steel shelf is for such articles as the electric food mixer.
- 8 The cutlery drawer in the Kitchenaid is lined with black linoleum and is partitioned with enameled steel dividers.
- 9 Cut-away view of the sliding drainboard on the Kitchenaid 48" Twin. The drainboard can be removed entirely while washing dishes. For sanitary, easy dishwashing, arrange the dishes in a rack in the deep bowl, rinse with scalding spray of steaming hot water and then cover with the drainboard.
- 10 Cut-away view of the drawer front shows how drawers and doors are heavily insulated for quietness.

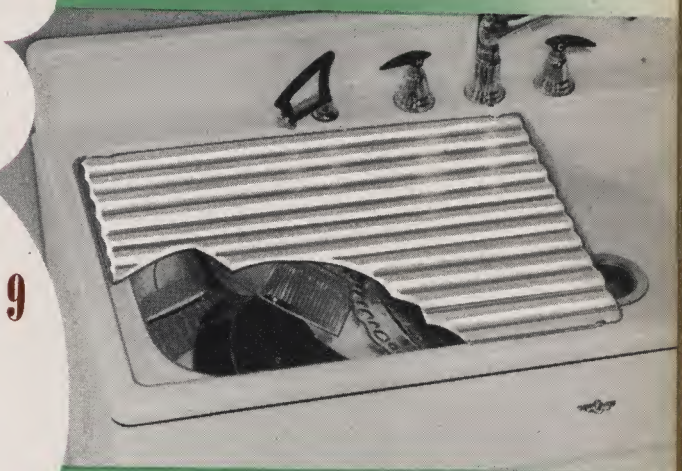
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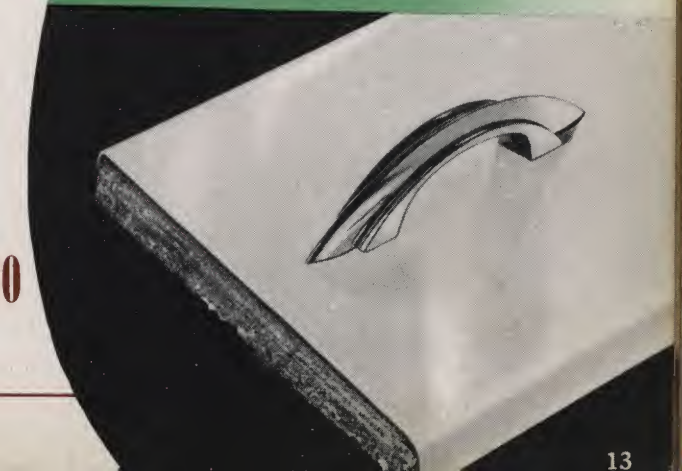
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10





# *The New Kitchenaiders Twins*

(TO REPLACE THE OLD FASHIONED SINK)



Kitchenaid 66" Twin

**M**ORE THAN 60% of all kitchen activity is carried on at the sink.

A new KITCHENAIDER TWIN with its two bowls in place of the conventional single bowl, makes all kitchen tasks easier and brings storage space and work surface together, saving thousands of steps daily.

Preparing food for meals and canning, cleaning silver and light laundry are all easier and more quickly done. Dishes are washed in one bowl, stacked in the other and rinsed with the extendible pull spray and left to dry, offering the newest technique in non-mechanical dishwashing.

The one-piece steel tops are finished in acid-resisting porcelain enamel and have four-inch splashbacks. Roomy undercabinets provide storage space for all items needed at the sink.

A special feature of all KITCHENAIDERS is the recessed panel in the front. This allows the housewife to work closer to the unit and eliminates tiresome stretching. A four-inch set-back of the sub-base for toe room provides additional comfort.



Kitchenaid 48" Twin

**K**ITCHENAIDER TWINS are offered in the three popular sizes illustrated, to fit into any kitchen. Two models have flush type drawers, one for cutlery, operating on brass runners with automatic stops. The 48" and 66" TWINS have sliding shelf for heavy items.



Kitchenaid 42" Twin



# Youngstown Kitchenaiders

## Standard and Deluxe

**I**N ADDITION to the KITCHENAIDER TWINS, YOUNGSTOWN offers four single bowl models. All KITCHENAIDERS are 24" deep, 36" high from floor to rim and 40" from floor to top.

The chart below gives the necessary dimensions to assist in selecting the KITCHENAIDER best suited to the individual kitchen.



### YOUNGSTOWN KITCHENAIDER DATA

Kitchenaid 42" Deluxe

Catalog Number	MODEL	ACTUAL OVERALL BOWL DIMENSIONS							Drainboard Dimensions		No. of Drawers	Shelves	No. of Compartments	Cu. Ft.	Approximate Shipping Weight without fittings
		Height		Width	Depth	Width	Length	Depth	Width	Length					
		Floor to Rim	Floor to Top												
42/R1A	*KITCHENAIDER STANDARD	36"	40"	42"	24"	16 3/8"	20"	7"	19 1/2"	22 1/2"	No	No	1	17 1/2"	
42/L1A	*KITCHENAIDER STANDARD	36"	40"	42"	24"	16 3/8"	20"	7"	19 1/2"	22 1/2"	No	No	1	17 1/2"	
42/R1A	*KITCHENAIDER DELUXE	36"	40"	42"	24"	16 3/8"	20"	7"	19 1/2"	22 1/2"	2	No	2	17 1/2"	190
42/L1A	*KITCHENAIDER DELUXE	36"	40"	42"	24"	16 3/8"	20"	7"	19 1/2"	22 1/2"	2	No	2	17 1/2"	190
42/R2A	KITCHENAIDER TWIN	36"	40"	42"	24"	15 3/8"	17"	7" RH	17 3/8"	20 3/8"	No	No	1	17 1/2"	210
42/L2A	KITCHENAIDER TWIN	36"	40"	42"	24"	15 3/8"	17"	11 1/2" LH	17 3/8"	20 3/8"	No	No	1	17 1/2"	210
48/2A	*KITCHENAIDER TWIN	36"	40"	48"	24"	16 3/8"	19 3/4"	11 1/2" LH	sliding drainboard						
								7" RH	18"	24"	1	No	3	20"	239
54/1A	*KITCHENAIDER DELUXE	36"	40"	54"	24"	16 3/8"	20"	11 1/2" LH	sliding drainboard						
								7"	17"	22 1/2"	5	1	2	22 1/2"	265
54/1B	KITCHENAIDER STANDARD	36"	40"	54"	24"	16 3/8"	20"	7"	17"	22 1/2"	2	No	3	22 1/2"	201
66/2A	*KITCHENAIDER TWIN	36"	40"	66"	24"	17 1/2"	14 1/2"	7"	17"	22 1/2"	5	1	2	27 1/2"	309
										FAUCET WITH SPRAY					
										9					

\*Handles and sub-bases of these Kitchenaid models are attached at factory.



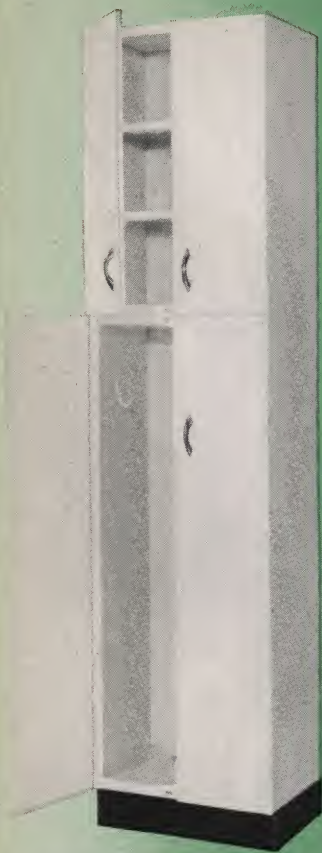
Kitchenaid 54" Standard



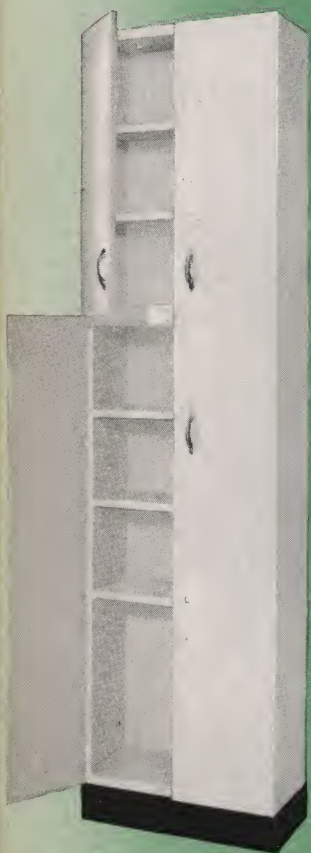
Kitchenaid 54" Deluxe



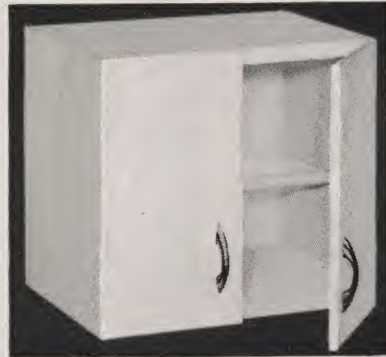
# Youngstown Cabinets



UTILITY CABINET — Broom



UTILITY CABINET — Linen



Wall Cabinet — 18" x 18" x 13"



Wall Cabinet — 36" x 18" x 13"



Base Cabinet — 15" x 36" x 24"



Base Cabinet — 21" x 36" x 24"



Base Cabinet — 24" x 36" x 24"

**R**EGARDLESS OF THE SIZE of the kitchen, there is a combination of YOUNGSTOWN Base and Wall Cabinets to make it a perfect workroom. Maximum work surface and storage can be had, since YOUNGSTOWN Cabinets come in many sizes.

Base Cabinets are 36" high and 24" deep, with four-inch toe space at the base, (same as Kitchenaid.) To provide an unbroken work surface, a continuous top is available for covering any combination of base cabinets.



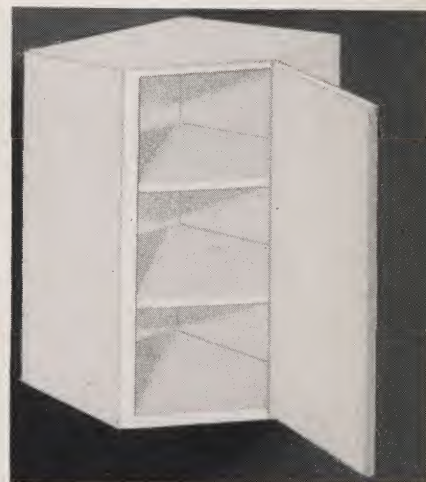
# for Every Need



Wall Cabinet — 15" x 30" x 13"



Wall Cabinet — 36" x 30" x 13"



Corner Wall Cabinet — 25" x 30" x 25"

Base Cabinets come with or without a coved splashback. The integral splashback and cabinet top are of gray linoleum on steel base with stainless steel binding.

Wall Cabinets are either 18" or 36" high and the broom and linen cabinets are 84" high. All are 13" deep. The drawers in the base cabinets are sound deadened, have rubber bumpers and brass runners in steel guides and catches that prevent them being pulled out accidentally. The doors are sound-deadened and have semi-concealed hinges.

Both drawers and doors have chrome handles and are flush construction, giving a surface easy to clean.

## CABINET SPECIFICATIONS

BASE CABINETS			
Width	Height	Depth	Details
15"	36"	24"	One drawer, right or left-hand door.
18"	36"	24"	
15"	36"	24"	Four drawers.
21"	36"	24"	
27"	36"	24"	
21"	36"	24"	Top drawer, two doors.
24"	36"	24"	
27"	36"	24"	
30"	36"	24"	
36"	36"	24"	
CORNER FILLER			
25"	36"	25"	

WALL CABINETS 30" High			
15"	30"	13"	Right or left-hand door.
18"	30"	13"	Two Doors, Three Shelves.
21"	30"	13"	
24"	30"	13"	
27"	30"	13"	
30"	30"	13"	
36"	30"	13"	
25"	30"	25"	Corner Cabinet. Right or left-hand door.
WALL CABINETS 18" High			
18"	18"	13"	Two doors, two shelves.
21"	18"	13"	
24"	18"	13"	
36"	18"	13"	
UTILITY CABINETS			
21"	84"	13"	Broom.
21"	84"	13"	Linen.



Base Cabinet — 36" x 36" x 24"



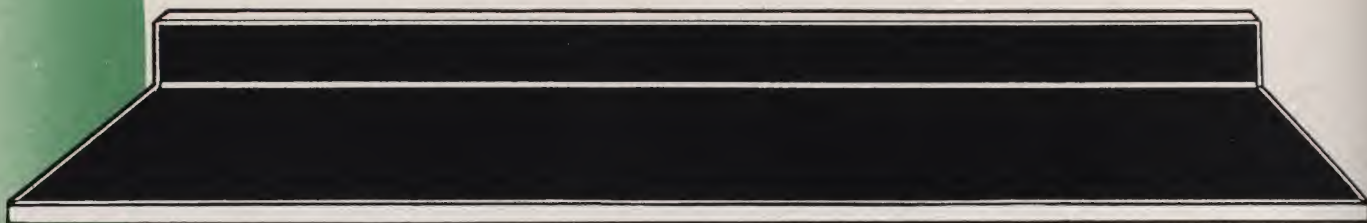
Base Drawer Cabinet — 15" x 36" x 24"



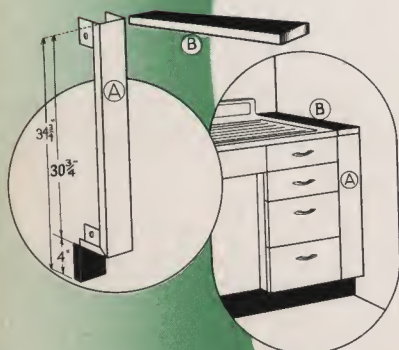
Base Corner Filler



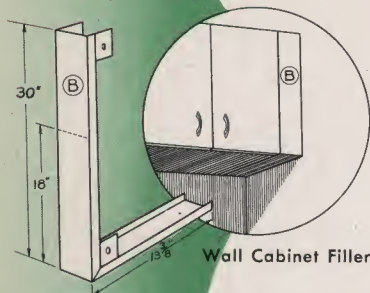
# Youngstown Kitchens ★ Accessories, Special Tops, Fillers and Special Shapes . . .



Continuous Linoleum Top



Base Cabinet Filler



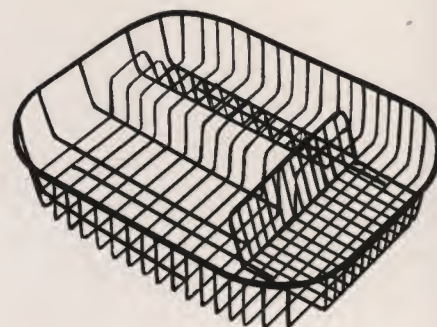
Wall Cabinet Filler

**Y**OUNGSTOWN KITCHENS can be complete in every detail. If the many sized cabinets available do not completely fill the space, base and wall fillers for wall-to-wall arrangement are standard equipment and come in sizes 1", 1½", 2", 2½", and 3". Special sizes may be ordered.

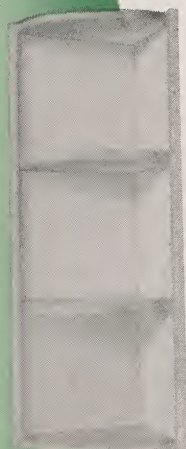
Continuous tops with coved 3" splash-backs, are available for base cabinets. These, too, may be obtained in special sizes if required.



Spray Attachment



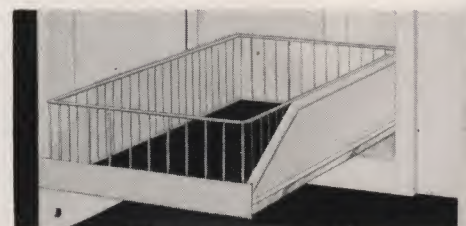
Drain Basket



What-Not Shelves



Condiment Shelf



Vegetable Rack

## SPECIAL CABINETS & SPECIAL SHAPES

The local Youngstown dealer will gladly furnish details on special equipment and necessary measurements for any special shape desired. Flat rim sinks are available, if the kitchen plans call for that type installation.



# Youngstown Kitchens for the Farm



**N**O LONGER need the farmer's wife envy the urban woman her modern kitchen. NOW there's a kitchen designed especially for the farm home. A YOUNGSTOWN kitchen has units that are definitely designed to meet farm requirements, with storage space for taking care of many larger-than-usual utensils and a Kitchenaid built to make cleaning this bulky, but necessary, equipment easy.

The Kitchenaid 48" Twin with extra deep left-hand bowl or the Kitchenaid 66" Twin with double drainboards will lighten the work.

30" or 36" base and wall cabinets have capacities from  $19\frac{1}{2}$  to  $23\frac{1}{2}$  cu. ft. of storage. Supplemented by smaller cabinets, as needed, the farm kitchen can be a model of convenience and beauty.

Canning, care of milk and cooking for a large number during harvest time become simple matters in a YOUNGSTOWN Kitchen. Plenty of work surface with all utensils and supplies near at hand make these tasks easier.





# *Kitchen Planning in Miniature with Youngstown Nation-Wide Service*

**T**HE MIN-A-KITCHEN method of planning is a service offered by all YOUNGSTOWN dealers. It eliminates guess work and shows, in miniature, how the modernized kitchen will look.

With the Min-A-Kitchen method each unit can be tried in many different locations until the housewife is certain the best arrangement for convenience and beauty has been found. Experience has taught that kitchens planned the Min-A-Kitchen way are the most satisfactory.

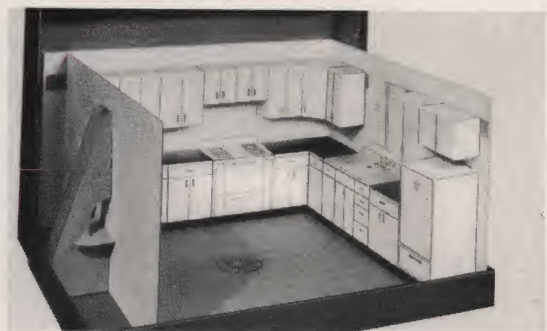
This service is free to housewives, builders and architects. YOUNGSTOWN dealers will have trained service planners who will be glad to assist in the planning. This free service is in the interest of better kitchens because YOUNGSTOWN Kitchens are worth waiting for.



The trained Youngstown kitchen planner helps the housewife with her planning.



The housewife knows what she wants — the Youngstown trained kitchen planner estimates the cost.



The Youngstown Min-A-Kitchen shows how the kitchen will look when installed.

## *Youngstown Kitchens*

AR





*Youngstown Kitchens*

*by Mullins Manufacturing Corporation*

WARREN, OHIO

Give a Man a Job



Put Dollars to Work

The FREE American Way

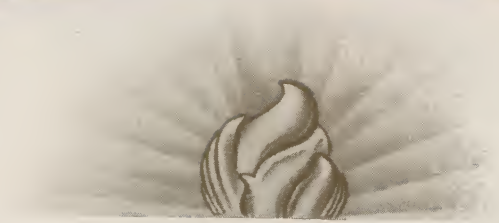
ORTH WAITING FOR





GET ACQUAINTED  
*with your*  
KITCHEN





# LUXURIOUS

**HOME HEATING COMFORT**

with  
*Luxaire*



THE C. A. OLSEN MANUFACTURING COMPANY ELYRIA, OHIO





## ***The most important thing in your new home.***

If your new home is chilly, drafty, unevenly heated, you cannot enjoy it, even if it has been carefully designed, beautifully decorated and provided with the finest of mechanical equipment.

To be certain that you will enjoy your new home in cold weather, as well as during the warmer months, select a Luxaire Air Conditioning System.

There are Luxaire Systems that burn gas, oil or coal.

Luxaire provides modern air conditioning for your new home. Luxaire provides speedy, efficient, economical delivery of heat under positive pressure of the blower, and in so doing keeps the air in steady, refreshing circulation. Filters remove dirt, dust, pollen—keep your home cleaner and more healthful—and save housework. The humidifier adds the moisture that is so necessary during the winter months.

The temperature controls automatically maintain an even temperature, regardless of changes in the weather outdoors.

In summer the blower can be operated to provide ventilation. If you desire, a cooling (refrigeration) unit can be added to your Luxaire at some later time.

You can have any of the new, modern Control systems or methods, with your Luxaire Air Conditioning Unit—methods that anticipate the need for heat delivery, or that provide constant or semi-constant air circulation.

Return the coupon on the inside back cover so we can give you the name of a Luxaire distributor in your area.

**THE C. A. OLSEN MANUFACTURING COMPANY**

**ELYRIA, OHIO**







This cutaway view shows heating element, controls, silent blower and filters.

**Now Ready!**

**NEW, POSTWAR MODELS**

# *Luxaire* GAS-FIRED AIR CONDITIONING UNITS

Your new, postwar home can have the New, modern, Postwar, Luxaire Gas-Fired Air Conditioning Unit.

This Luxaire, approved by American Gas Association, provides air conditioning at its best—invigoratingly warmed, humidified, filtered, circulating air—automatically!

As a result of years of experience, development and testing, Luxaire engineers have developed a gastight, welded steel heating element with an even greater life expectancy than the sturdy, durable units that were built before the war.

An outstanding stylist has concealed the mechanical parts of this air conditioner in a most attractive cabinet of advanced design and striking colors that will be a decorative addition to any basement or heater room.

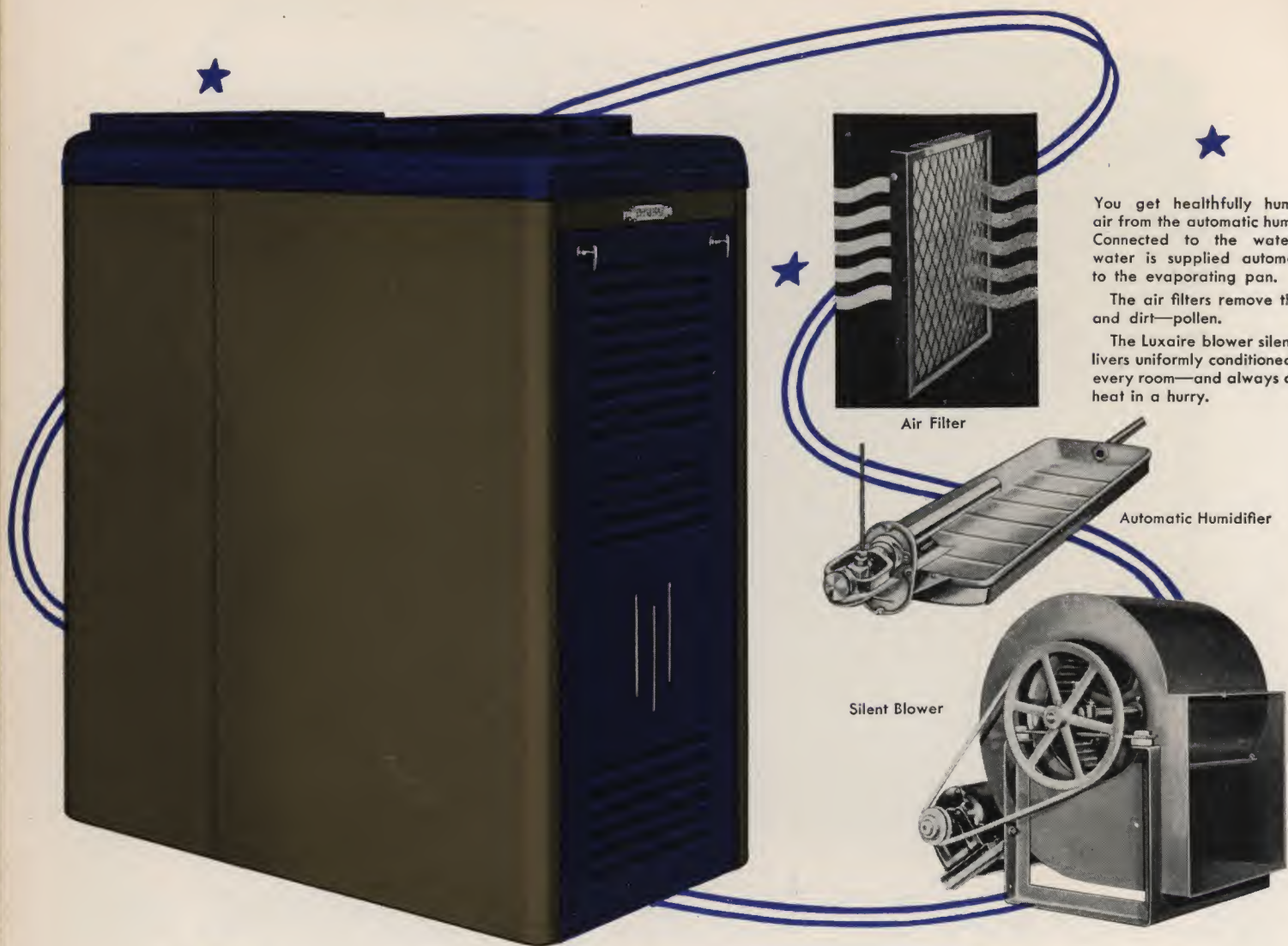
The owner of a home without a basement, too can secure the New Postwar Luxaire. Luxaire's compact Utility Unit provides all the advantages of air conditioning and automatic operation that are obtained in the basement unit.



Luxaire Gas-Fired Utility Unit, showing Blower and Filter located at base of unit.







You get healthfully humidified air from the automatic humidifier. Connected to the water line, water is supplied automatically to the evaporating pan.

The air filters remove the dust and dirt—pollen.

The Luxaire blower silently delivers uniformly conditioned air to every room—and always delivers heat in a hurry.

Air Filter

Automatic Humidifier

Silent Blower

# *Luxaire* GAS-FIRED AIR CONDITIONING UNIT

## *With Cast Iron Heating Elements*

Here is a completely automatic gas-fired air conditioning unit with heating element of cast iron construction.

In this striking model, Luxaire offers homeowners an excellent . . . efficient . . . durable . . . completely automatic gas-fired air conditioning unit. Approved by American Gas Association.

Enclosed in a smartly-styled outer cabinet with baked hammerloid enamel finish that is always attractive and easy to keep clean . . . always cool even to

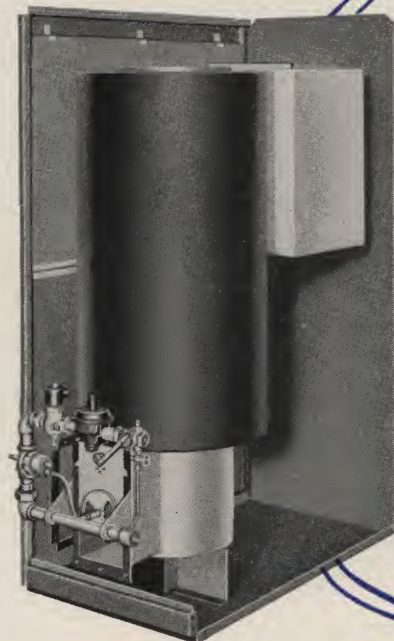
a baby's tender touch.

You'll notice that all burner controls and air conditioning equipment are concealed within the cabinet yet are readily accessible through door openings in the front and rear.

This Luxaire unit is a remarkable value that will give trouble-free service year after year. The whole family will enjoy the comfort and convenience which this efficient air conditioning unit provides—automatically.







This illustration shows the interior construction of Luxaire Gas Gravity Furnace.

Now Ready!

THE NEW, POSTWAR

# Luxaire GAS GRAVITY FURNACE

Luxaire Automatic Gas heating in your new home is the most effortless convenience that you can acquire.

Light the pilot in the fall. Set the thermostat to the temperature that you desire. There is nothing more to do.

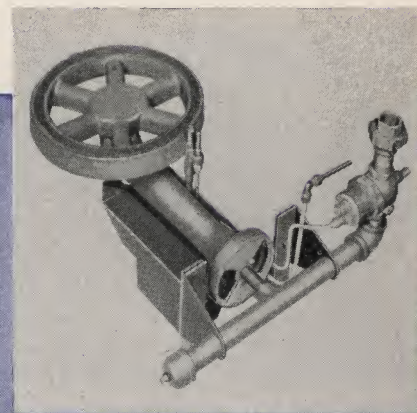
And Luxaire Gas heating is clean heating. No coal! No ashes! No dirt, dust or soot!

Wallpaper, drapes, curtains stay clean longer.

Luxaire Gas heating gives you another usable room in the basement. No space is needed for fuel and ash storage. The basement can be as clean as the rest of your home.

In your postwar home with insulation, and possibly storm windows, Luxaire automatic gas heating will probably cost little more, if any, than coal heating.

If you decide on gas heating, don't be satisfied with an out-of-date, prewar gas furnace. Insist on having the New, Postwar Luxaire! Approved by American Gas Association.



THE MODERN LUXAIRE  
MULTIPORT GAS BURNER

The Multiport burner is as distinctive as the Luxaire Furnace. It burns all types of gas—natural, mixed, manufactured—with uniform efficiency. It ignites and extinguishes silently.







This interior view shows the compact, efficient oil burner, rugged heating element, and silent, powerful blower.

# Luxaire OIL-FIRED AIR CONDITIONING UNIT

If oil is the fuel that you prefer, Luxaire offers the outstanding, time-tested unit illustrated on this page.

Like all Luxaire Air Conditioners, it will flood your home during zero days and nights with warm, balmy, conditioned air. Like all Luxaires, its efficient design will reduce fuel bills, and its long-lived construction will result in negligible maintenance and servicing expense.

The heating element is welded into a seamless, gastight unit. This construction, in combination with the air filters, explains why this and all Luxaires provide such clean heating.

With your Luxaire, you can operate the blower on hot, stifling days and nights to provide ventilation.



Economical in consumption of fuel, easier to install, adjust and service, is this advanced type of oil burner. Motor, transformer, fuel unit and combustion control readily accessible for inspection.



The oil flame is regulated and set for highest combustion efficiency easily and quickly by means of Luxaire's ingenious finger-tip air control.



Nozzle line and electrode assembly are removable through rear of burner for inspection and attention without disturbing the mounting of the burner.



THE C. A. OLSEN MANUFACTURING COMPANY  
ELYRIA, OHIO

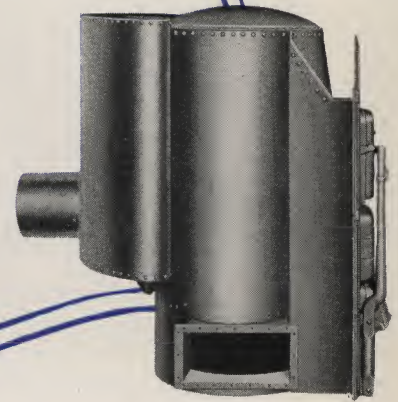
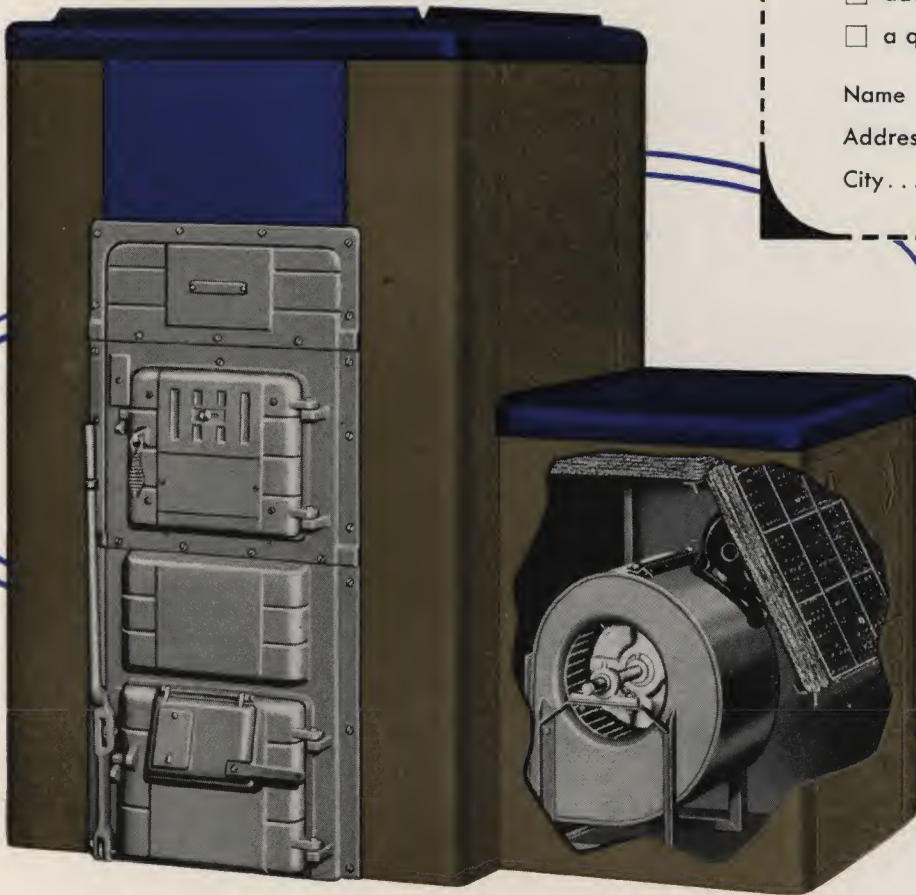
Please have your nearest distributor arrange to provide me with

- ☐ additional information.  
☐ a quotation on a Luxaire installation in my home.

Name .....

Address .....

City ..... State .....



A view of the heating element of the stoker-fired model. Stoker may be connected to unit at either side, or at the front.

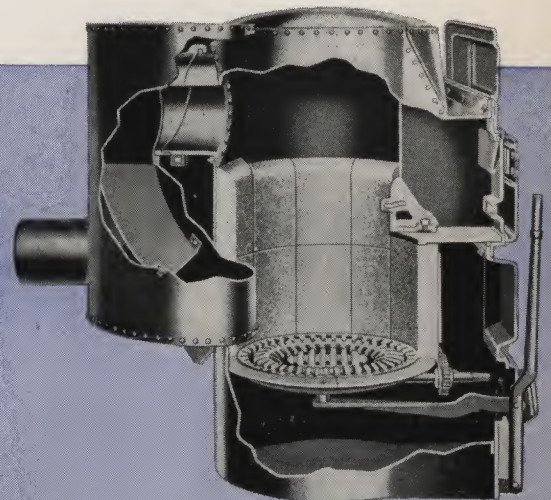
# *Luxaire* COAL-FIRED AIR CONDITIONING UNIT

**Available in Hand-Fired or Stoker-Fired Models**

If your choice of fuels is coal—either hand or stoker-fired—decide now to have the Luxaire Coal-Fired Air Conditioner in your home.

These units are made in a size for any size or type of home. They are durably constructed for long years of trouble-free service, with heavy, rugged, riveted and welded all-steel elements—full height, firebrick-lined firepot—heavy duty duplex grates—large silent blower—filter and humidifier. The attractive cabinet is finished in baked hammerloid enamel which will not collect dust or dirt and is easy to clean.

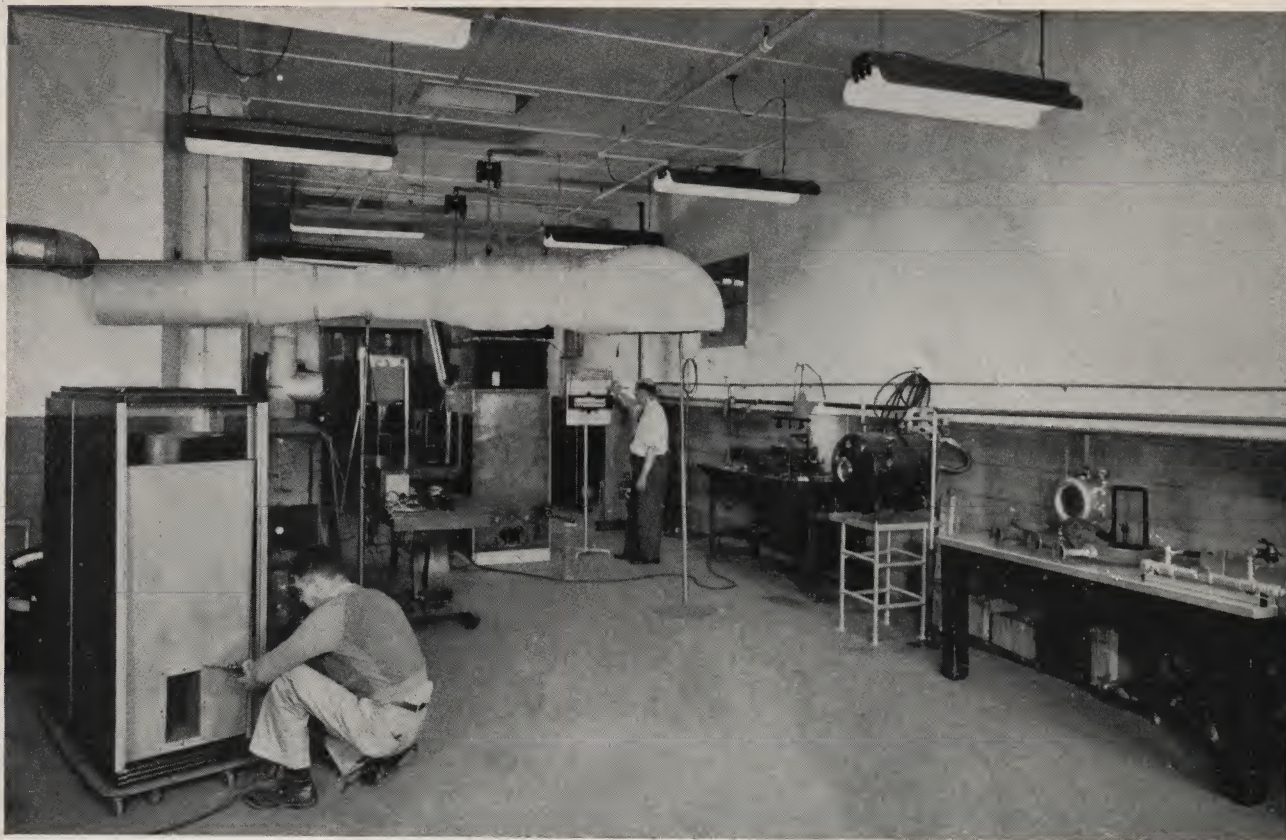
In winter, glowing, healthful heat, with dirt and dust removed, will be sent into those hard-to-heat rooms. In summer, invigorating air will be circulated throughout the home.



Cutaway view showing the riveted and welded construction of heating element; full height firepot that holds a large charge of coal; duplex grate, that shakes ashes and dumps clinkers without disturbing the fire.

This Luxaire is riveted and welded—both! Riveted for strength! Welded for tightness! You'll have no dirt, dust, soot, smoke or ashes escaping into the circulating air.





## *Luxaire* RESEARCH AND DEVELOPMENT

LUXAIRE has broad experience in the manufacture of heating and winter air conditioning equipment.

LUXAIRE resourcefulness has made Luxaire one of the largest manufacturers in the industry.

LUXAIRE with improved manufacturing facilities, modern plants, and skilled workers who employ the

most modern methods, is prepared for an even greater future.

LUXAIRE continually advances because Luxaire research and development engineers are continuously planning, designing and testing, to keep Luxaire a leader in the manufacture of warm air heating and air conditioning equipment.



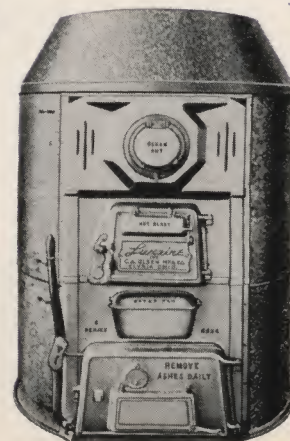
## *Luxaire* GRAVITY FURNACES

### LUXAIRE STEEL GRAVITY FURNACE

An efficient, coal-fired furnace that will give long, trouble-free years of heating satisfaction—yet, is surprisingly low in price. Combustion chamber and radiator are riveted and welded, gastight. Heavy, duplex dumping grates are standard equipment. Firepot is brick lined. Illustration at left shows this furnace with attractive, square-cased, enameled cabinet. The same furnace is available also with conventional round galvanized casing.

### LUXAIRE CAST-IRON GRAVITY FURNACE

This style of furnace has been popular for many years, particularly where a low-priced, yet an efficient heating plant is demanded. There are a minimum of joints in this heavy, trouble-free furnace, which is equipped with duplex, dumping grates. This is an efficient, economical furnace for low-priced homes.







IN YOUR NEW HOME

...a little *extra glass*  
means a lot of *extra charm*



How *glass* can make your  
new home *brighter*

**W**HETHER you build a new home, or buy one already built, you naturally want it to be as attractive, as modern and as practical as possible . . . whatever its cost or style.

Pittsburgh Glass can help you to be sure it is. For Pittsburgh Glass comes in a variety of types and forms. It is gay and glamorous. It is permanent and completely practical. It is so successful in adding little touches of smartness, style and charm for just a few dollars invested, that today, scarcely any new home is considered truly modern without it.

This ability of Pittsburgh Glass to give your new home so much extra charm for so little extra money holds true whatever your building budget, whatever price home you buy. It is, therefore, perfectly reasonable for you to include some simple glass applications in your new home. The cost is negligible . . . and the difference in beauty and livability glass makes in your house is tremendous.

This booklet shows a few of the many ways in which glass can be used effectively and inexpensively to brighten your new house. And it includes working drawings of exactly *how* the glass can be easily and simply installed.

Show the glass ideas that appeal to you to your architect or builder. He'll be glad to see that they're included in your "dream house."







One of the simplest but most effective touches of glass for your new home is a circular, unframed mirror like this, hung in an appropriate spot . . . over buffet, server or occasional table, for example. And a mirrored table top helps to increase the effect of smartness and good taste. See installation instructions on page 7, A.



A structural wall mirror is a treat to the décor of any room. It reflects color, light and movement . . . makes the room seem larger and brighter. See installation instructions on page 7, C.



The living room fireplace is a wonderful spot for a big, unframed mirror. Install one over the mantel like this . . . and you're sure to have a living room you'll be proud of. See installation instructions on page 7, C.

Or a structural mantel mirror like the one at the right, flanked by smart plate glass shelves for knick-knacks, is even more impressively lovely. Inexpensive . . . but a wonder-worker in your living room. See installation instructions on page 7, B or 7, C.





← No home is complete without at least one full-length door mirror. A favorite with the entire family. Shows you how you look from head to toe . . . and a cinch to install. See instructions on page 8, A.

The unframed style of full-length → door mirror is very popular nowadays. Even little ladies like this appreciate its usefulness and beauty. See installation instructions on page 8, B.



Gayety and glamor in exhilarating doses brighten the room with mirror-backed plate glass shelves like these. A perfect setting for your favorite objets d'art, plants or almost anything. See instructions on page 8, D.

Kitchen Companion! A simple unframed mirror on the kitchen door gives you a quick check-up on your appearance when the doorbell rings . . . or before greeting guests. See installation instructions on page 8, B.





The smartest possible bathroom is one walled with lovely, polished Carrara Structural Glass. Ten colors to choose from. Easy to keep sparkling clean with nothing but a damp cloth. If you have a beautiful structural mirror behind the lavatory . . . so much the better! See installation instructions on page 7, C.



Mirrors above and on each side of your fireplace will win "oh's" of admiration from everyone who sees them. You can have blue, flesh tinted, green or regular mirrors, you know . . . with silver, gold or gunmetal backing. See installation instructions on page 7, C.

Nature comes right into a room when there's a "picture" window → like this to welcome it. Pick out your nicest view and place your picture window to overlook it. See installation instructions on page 9, A.

Corner windows are all the rage, now . . . and with good reason. You get more light, a two-way view, cross ventilation . . . and extra good looks from outside or inside. See installation instructions on page 10.

Wouldn't you enjoy your meals in a dining room like this . . . with a lovely plate glass picture window to frame the view and admit floods of daylight? Easy to have one . . . and not too expensive. See installation instructions on page 9, A.

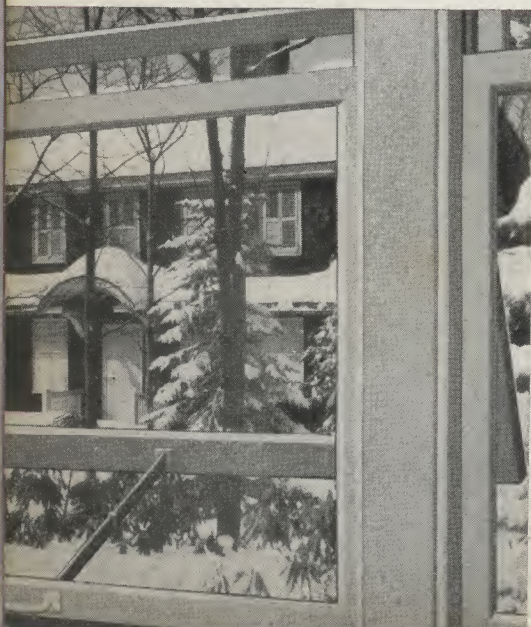
5







It's wise to prepare your new home for cold weather with winter windows. They cut fuel costs, make your home more healthful, and are easy to put up and take down each season.



It's fun to sit in your living room and look through a "wall of glass" like this at the handiwork of Nature outside. A big picture window solves a lot of decorating problems, too. See installation instructions on page 9, B.

Window ventilators of plate glass are a good idea for your new home. They let in fresh air, but cut off the dangerous drafts.

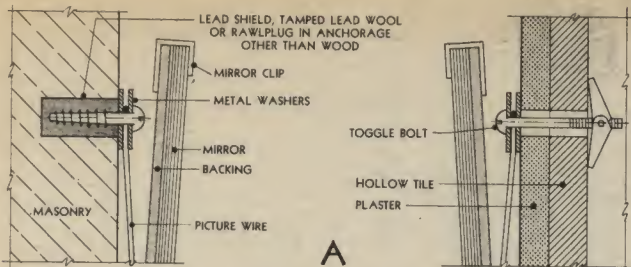
Turn an ordinary window into an eye-catching beauty spot by putting a few plate glass window shelves across it like this. It's a simple, inexpensive idea . . . but what a lift it gives your room!

Something new . . . but very useful. A closet shelf of transparent plate glass . . . so you can see what's on the shelf without climbing on a chair!

6

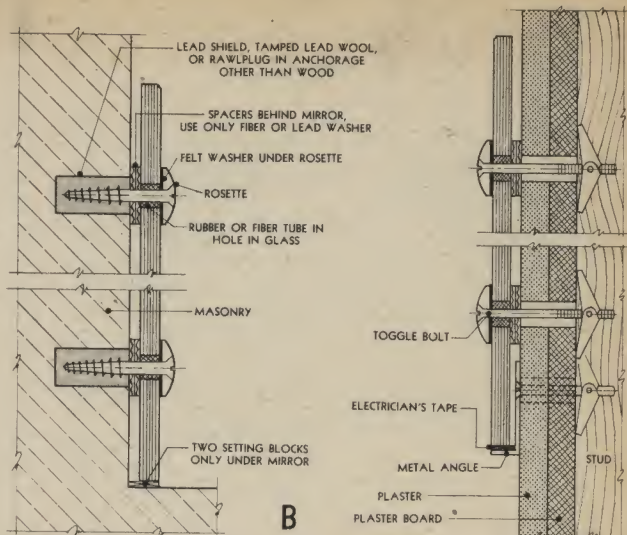
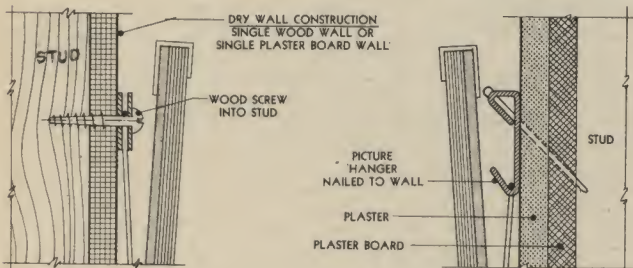






**A**

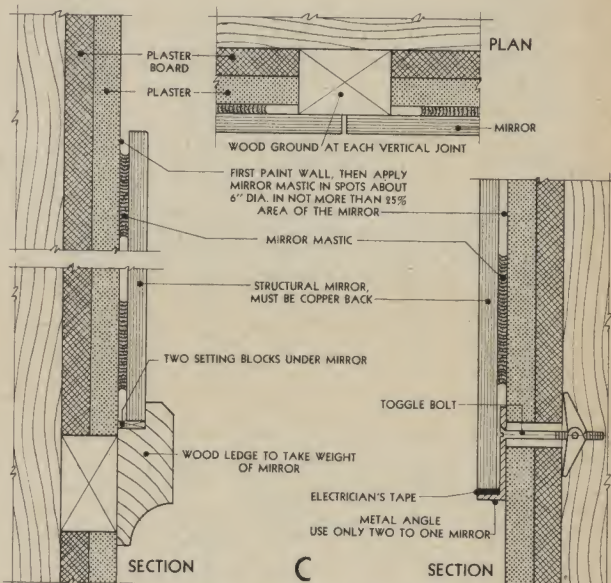
**METHOD OF HANGING MIRRORS ON WALL**



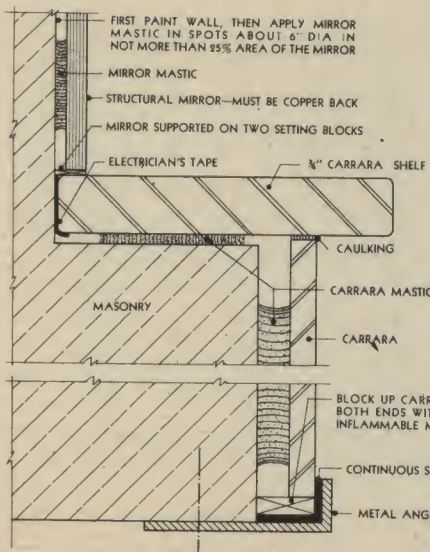
**B**

**METHOD OF FASTENING MIRROR WITH ROSETTES OVER LEDGE**

**NO LEDGE**

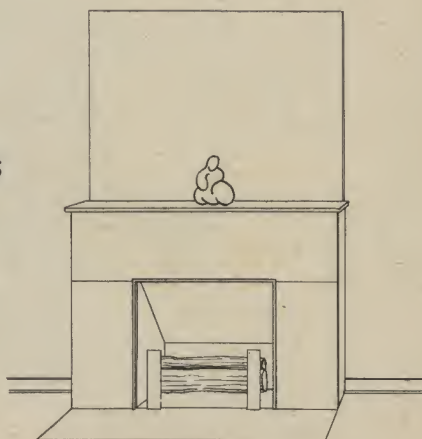


**METHOD OF MIRROR APPLICATION TO PLASTER WALL WITHOUT ROSETTES**

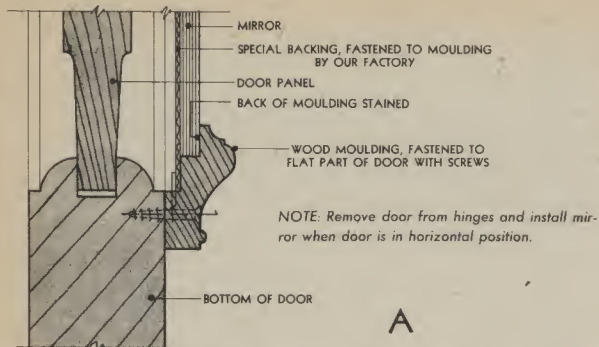


**D**

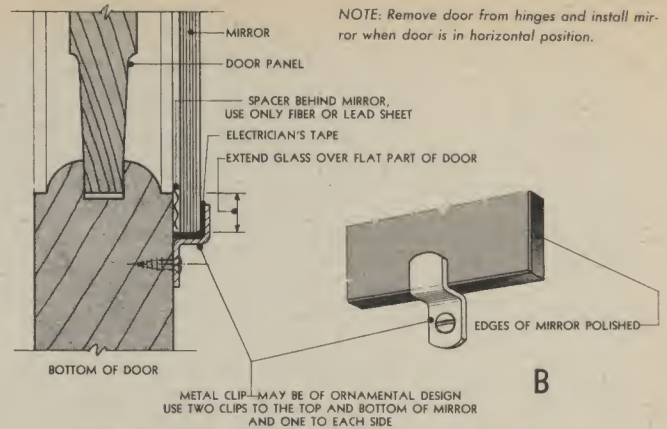
**APPLICATION OF GLASS OVER AND AROUND FIREPLACE**



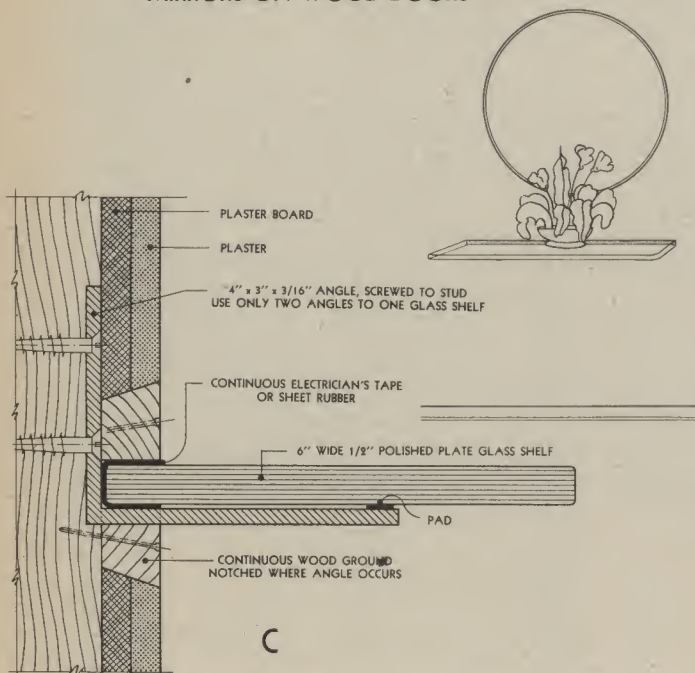




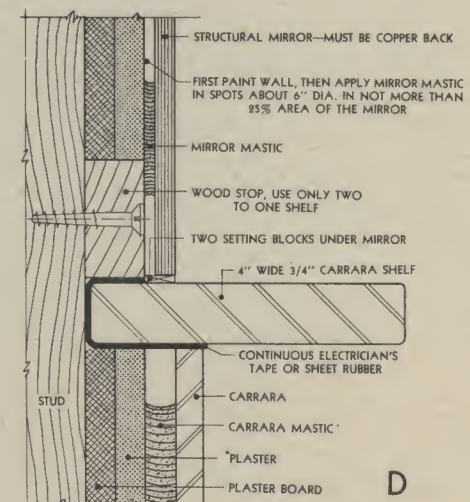
**INSTALLATION OF FACTORY FRAMED MIRRORS ON WOOD DOORS**



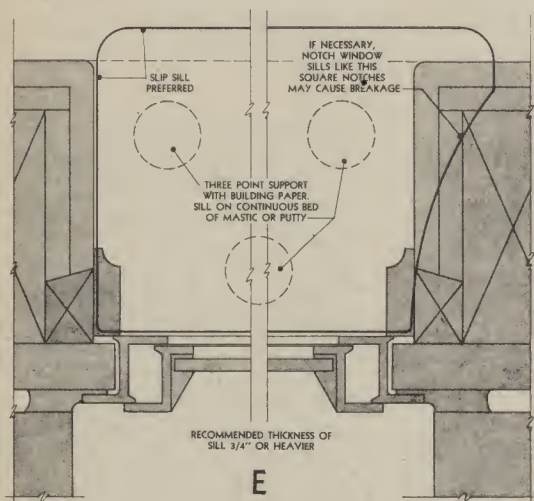
**INSTALLATION OF VENETIAN MIRRORS ON WOOD DOOR**



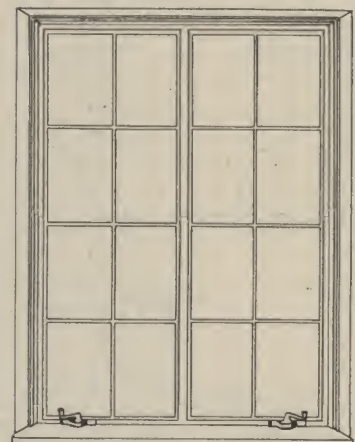
**METHOD OF GLASS SHELF INSTALLATION IN CASE OF PLASTER WALL USING METAL BRACKET**



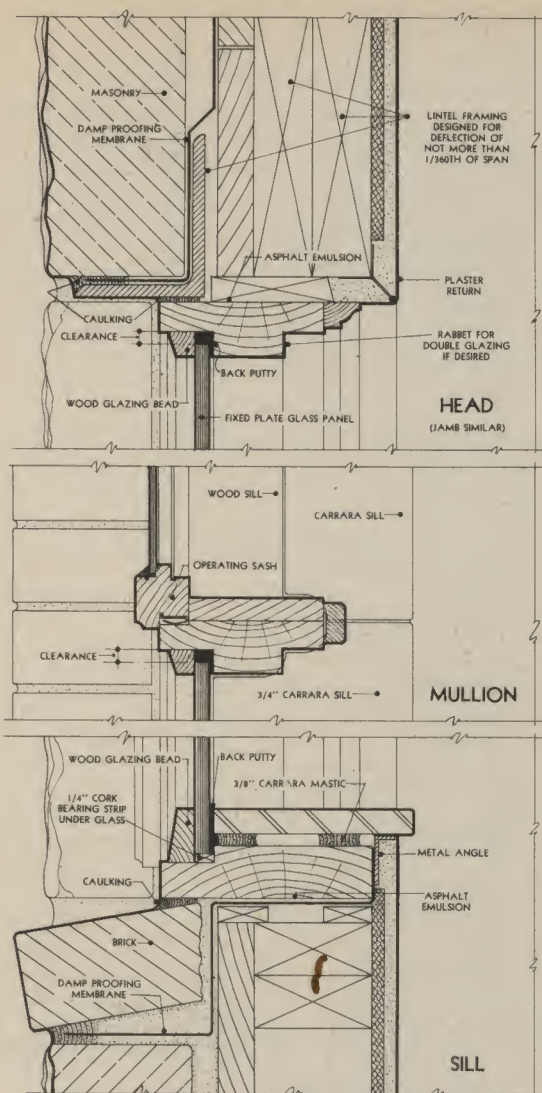
**METHOD OF GLASS SHELF INSTALLATION IN CASE OF PLASTER WALL WITHOUT METAL BRACKET**



**PLAN OF CARRARA GLASS INTERIOR WINDOW SILL**

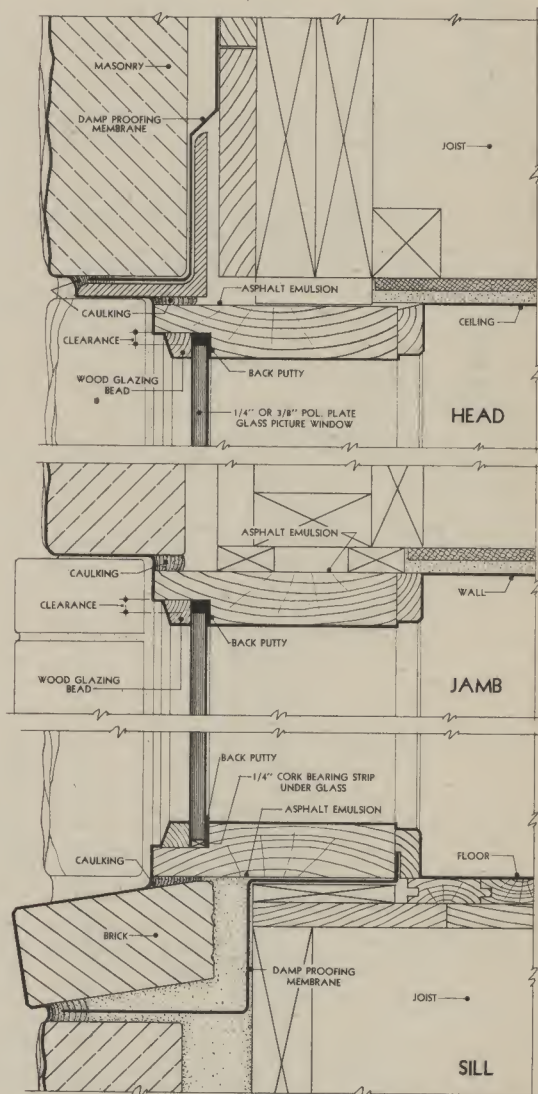
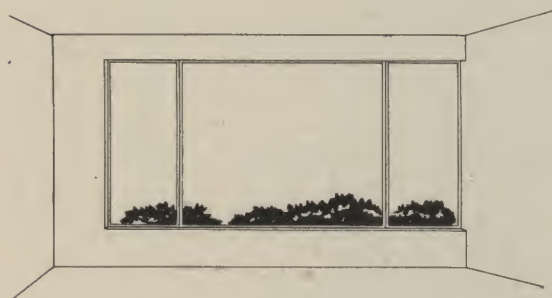






INSTALLATION DETAIL FOR A COMBINATION OF  
PICTURE WINDOW AND OPERATING SASH

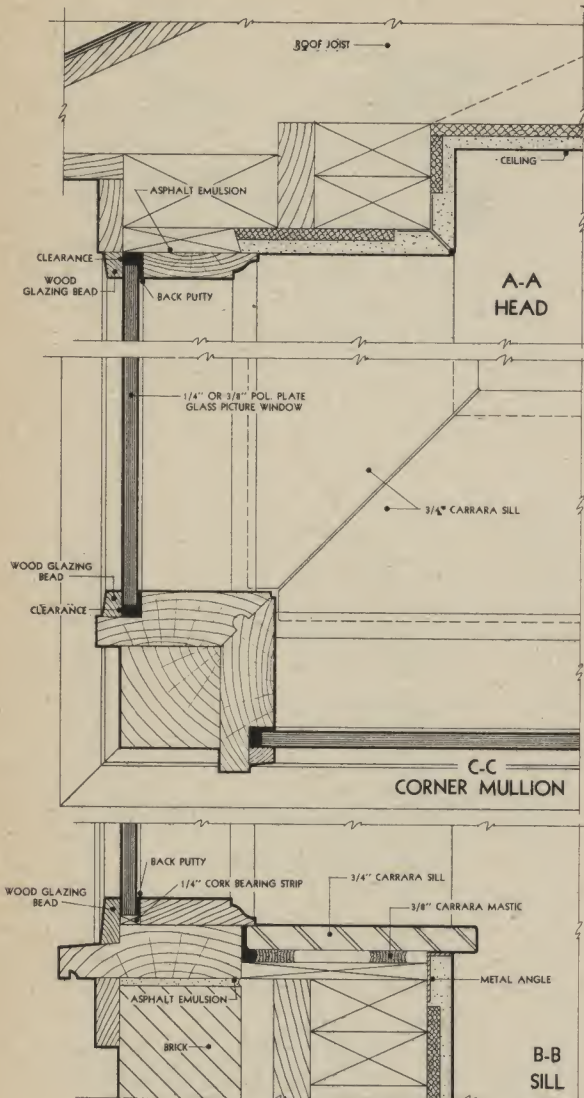
A



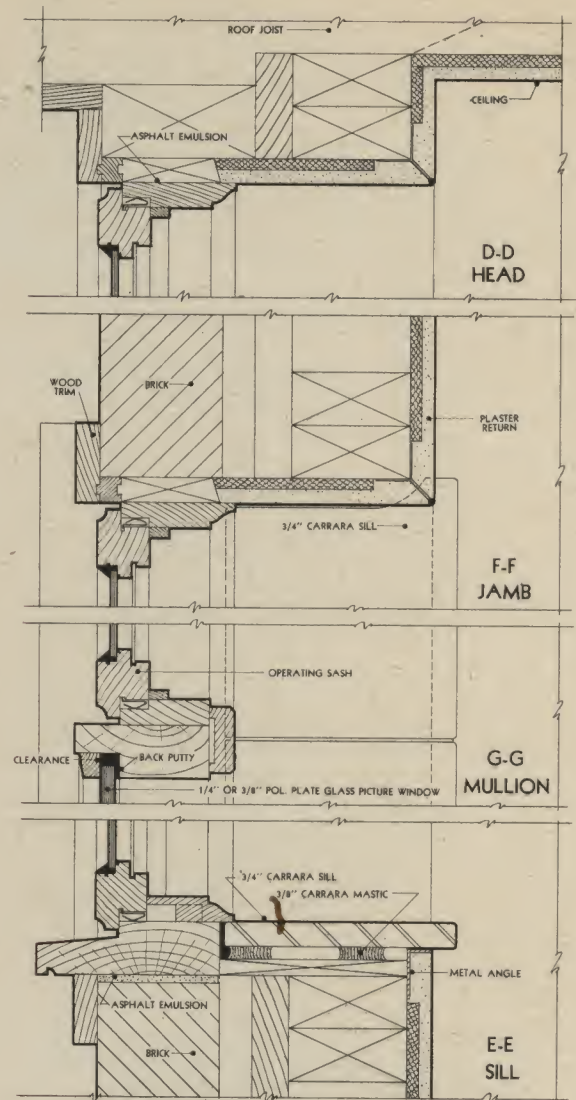
INSTALLATION DETAIL FOR PICTURE WINDOW EXTENDING  
FROM FLOOR TO CEILING AND FROM WALL TO WALL  
DETAIL SHOWS WOOD SILL

B

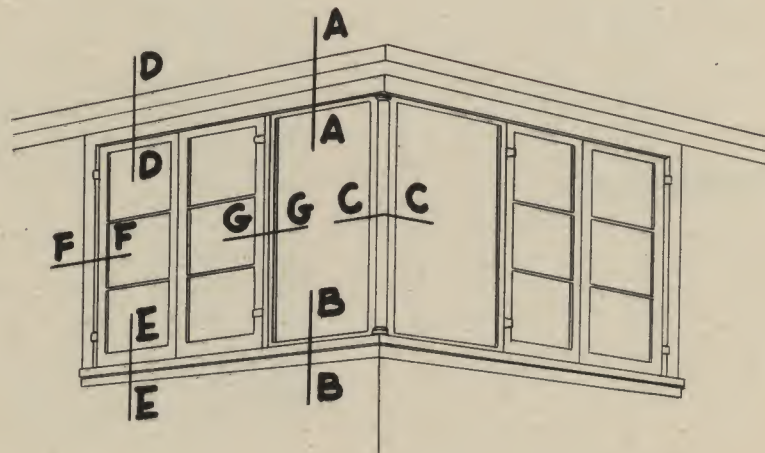




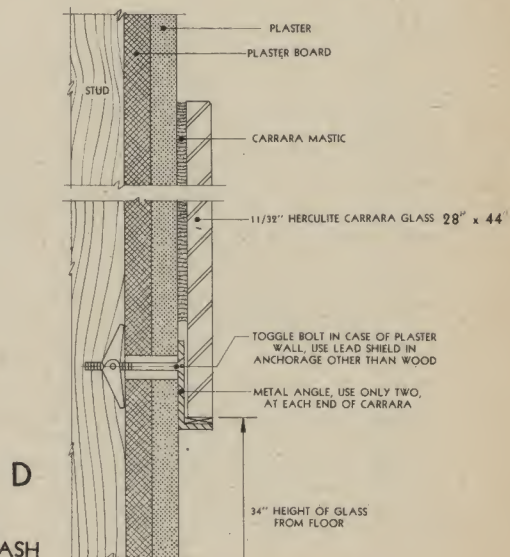
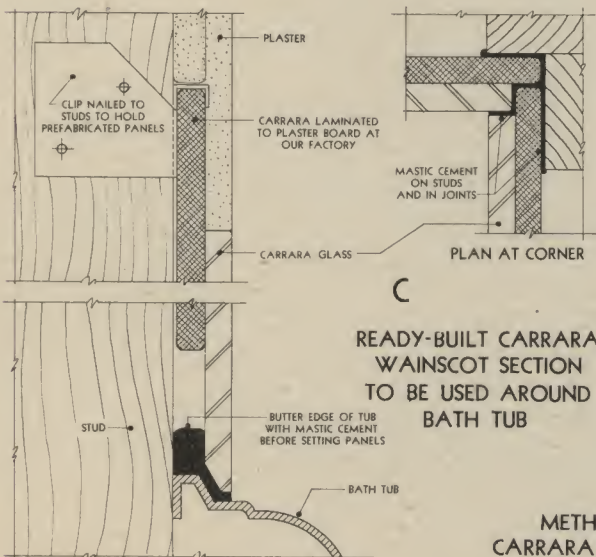
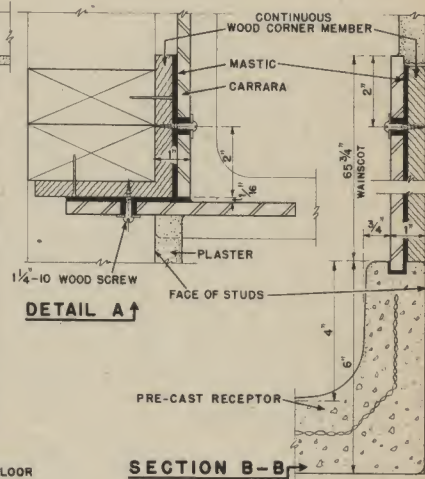
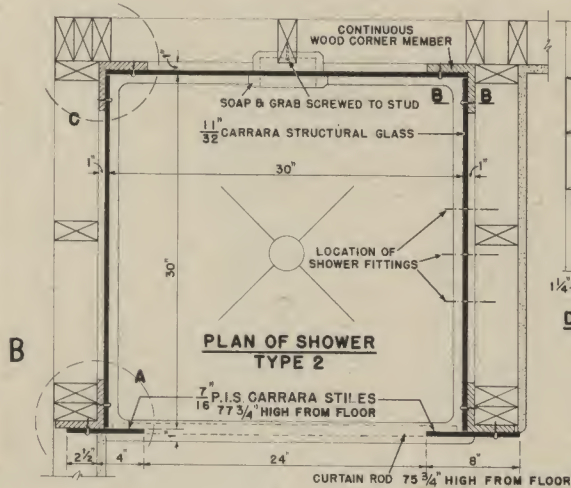
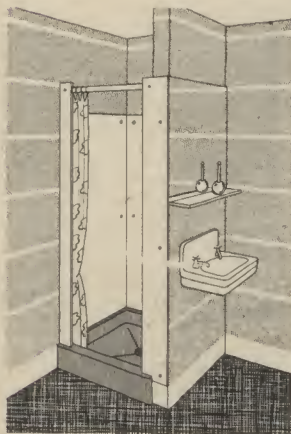
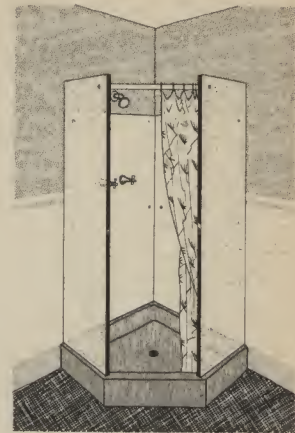
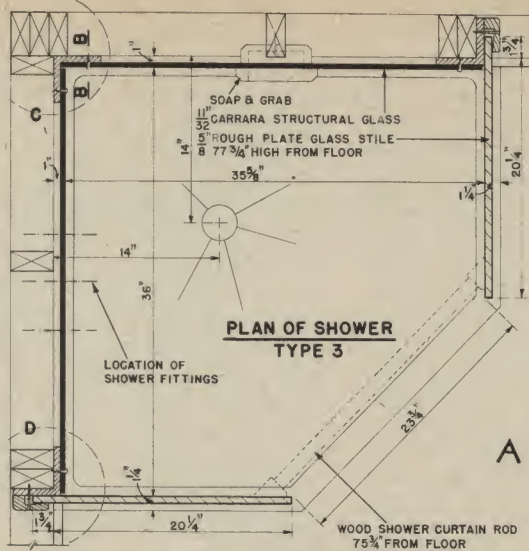
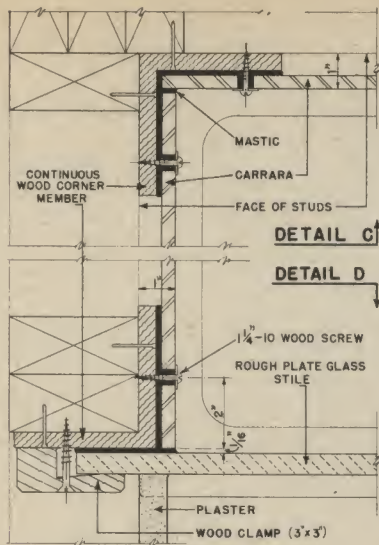
INSTALLATION DETAIL OF A  
CORNER PICTURE WINDOW



INSTALLATION DETAIL FOR A COMBINATION OF  
PICTURE WINDOW AND OPERATING SASH

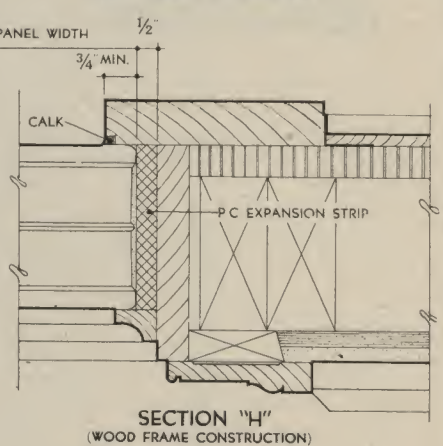
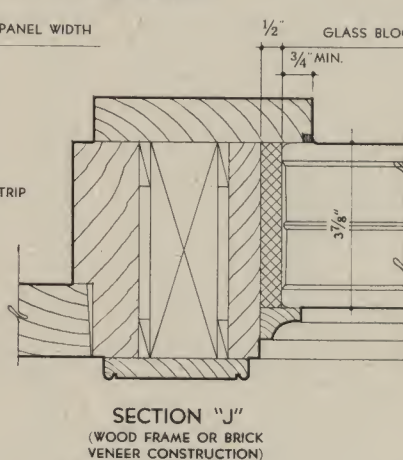
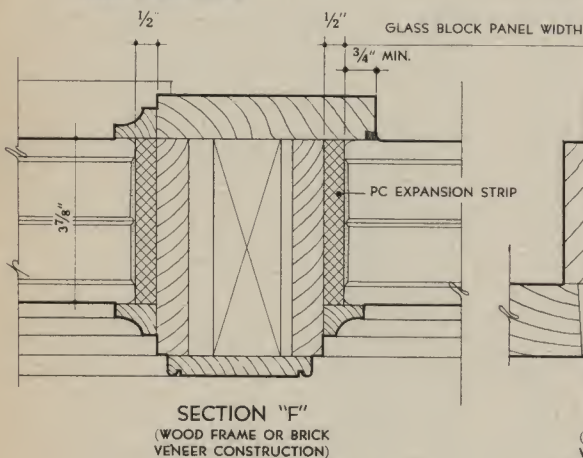
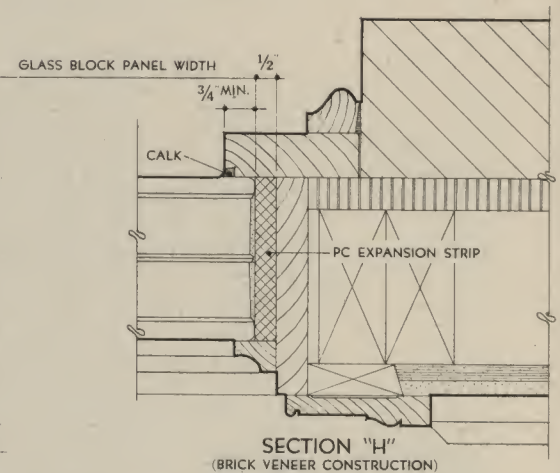
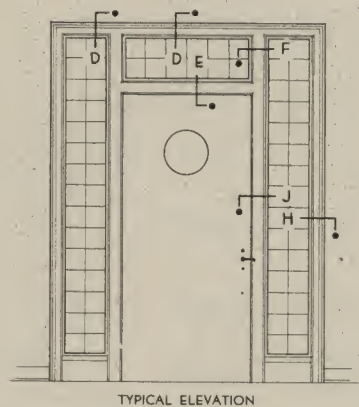
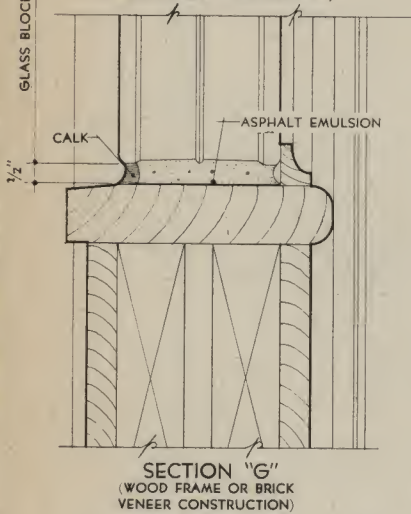
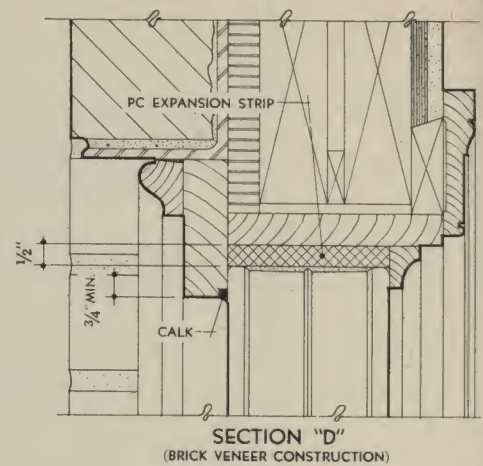
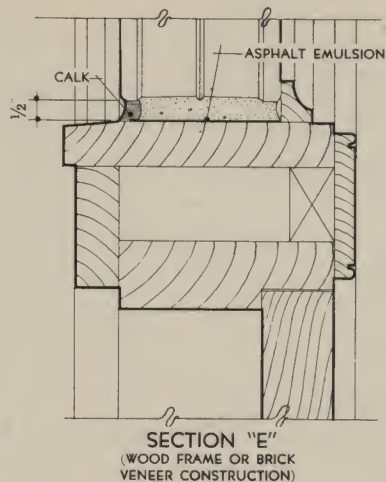
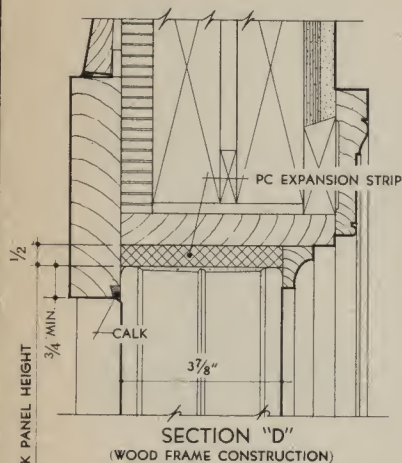






NOTE: If so desired on new work Carrara may be set against wallboard and plaster finished flush with glass.





#### GENERAL NOTES

**GLASS BLOCK SIZES:**—P C Glass Blocks are available in 5 3/4", 7 3/4" and 11 3/4" square sizes, and are installed with 1/4" visible mortar joints.

**WALL ANCHOR SPACING:**—P C Wall Anchors shall be spaced as follows:

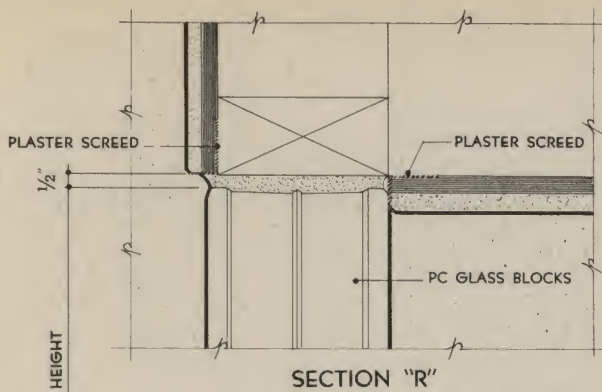
For 5 3/4" size blocks—Every 4th course.

For 7 3/4" size blocks—Every 3rd course.

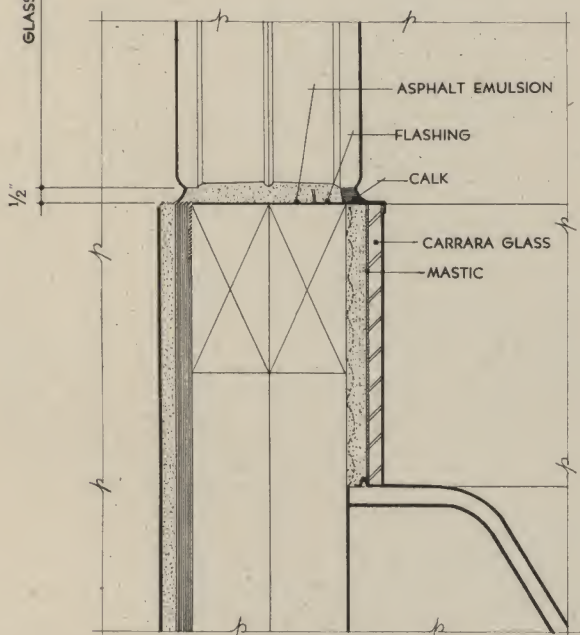
For 11 3/4" size blocks—Every course.

**MORTAR MIX:**—Mortar for glass blocks shall be one (1) part Portland Cement, one (1) part lime, and four (4) to six (6) parts sand all measured by dry volumes, and *integral type waterproofer*, mixed to a consistency as stiff as will permit good working, and shall be drier than for ordinary brickwork. For interior panels, the waterproofer may be omitted.

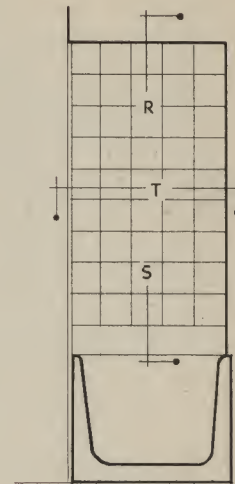




SECTION "R"



SECTION "S"



TYPICAL ELEVATION

### GENERAL NOTES

**GLASS BLOCK SIZES:**—P C Glass Blocks are available in  $5\frac{3}{4}$ ",  $7\frac{3}{4}$ " and  $11\frac{3}{4}$ " square sizes, and are installed with  $\frac{1}{4}$ " visible mortar joints.

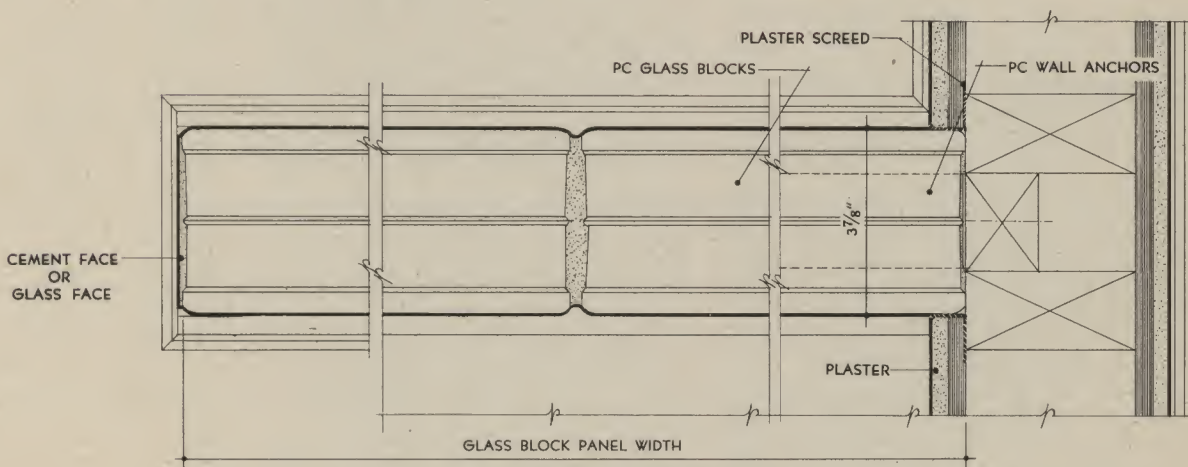
**WALL ANCHOR SPACING:**—P C Wall Anchors shall be spaced as follows:

For  $5\frac{3}{4}$ " size blocks—Every 4th course.

For  $7\frac{3}{4}$ " size blocks—Every 3rd course.

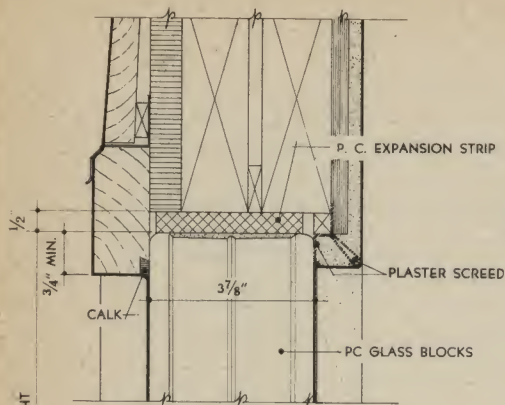
For  $11\frac{3}{4}$ " size blocks—Every course.

**MORTAR MIX:**—Mortar for glass blocks shall be one (1) part Portland Cement, one (1) part lime, and four (4) to six (6) parts sand all measured by dry volumes, and *integral type waterproofer*, mixed to a consistency as stiff as will permit good working, and shall be drier than for ordinary brickwork. For interior panels, the waterproofer may be omitted.

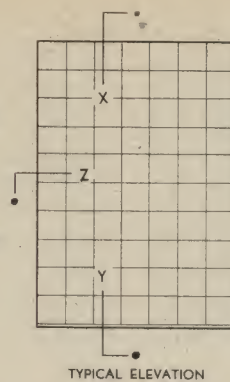


SECTION "T"

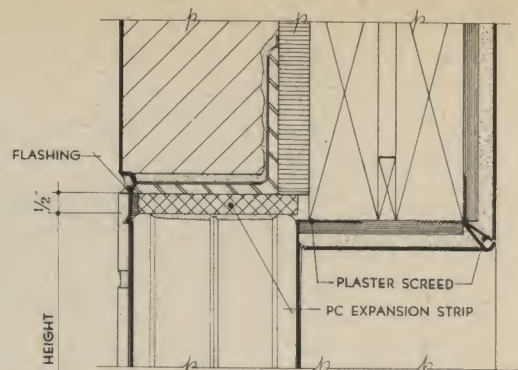




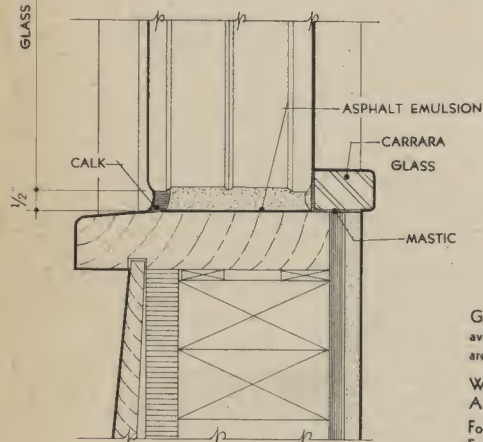
SECTION "X"  
(WOOD FRAME CONSTRUCTION)



TYPICAL ELEVATION



SECTION "X"  
(BRICK VENEER CONSTRUCTION)



SECTION "Y"  
(WOOD FRAME CONSTRUCTION)

#### GENERAL NOTES

GLASS BLOCK SIZES:—P C Glass Blocks are available in  $5\frac{3}{4}$ ",  $7\frac{3}{4}$ " and  $11\frac{3}{4}$ " square sizes, and are installed with  $\frac{1}{4}$ " visible mortar joints.

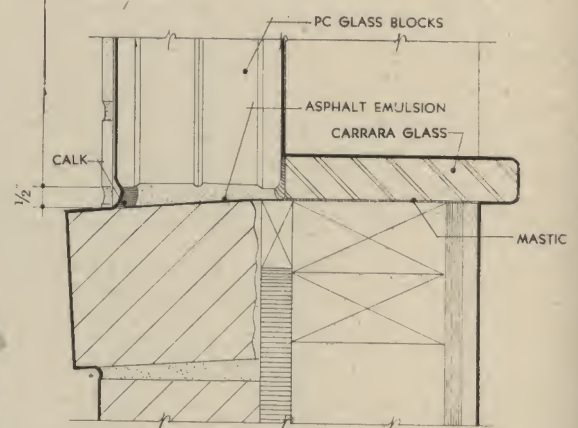
WALL ANCHOR SPACING:—P C Wall Anchors shall be spaced as follows:

For  $5\frac{3}{4}$ " size blocks—Every 4th course.

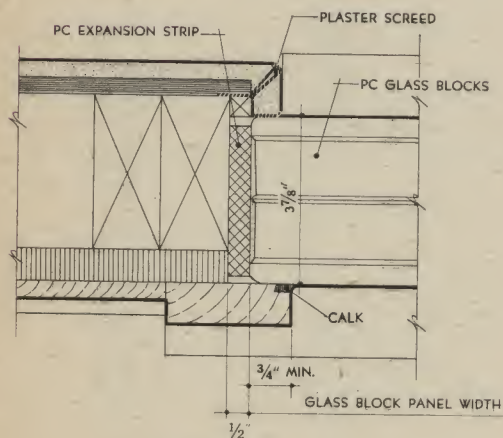
For  $7\frac{3}{4}$ " size blocks—Every 3rd course.

For  $11\frac{3}{4}$ " size blocks—Every course.

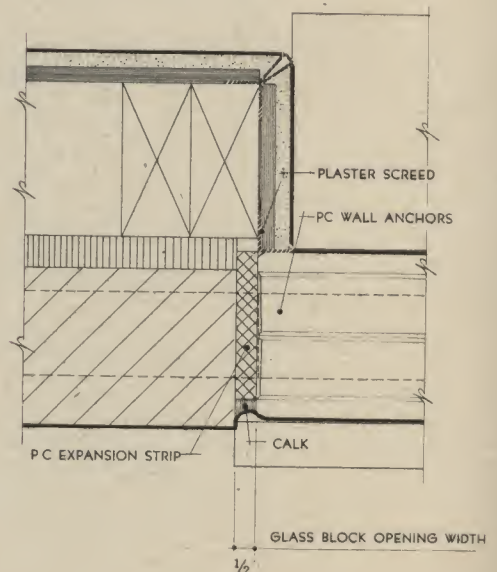
MORTAR MIX:—Mortar for glass blocks shall be (1) part Portland Cement, one (1) part lime, and four (4) to six (6) parts sand all measured by dry volumes, and *integral type waterproofer*, mixed to a consistency as stiff as will permit good working, and shall be drier than for ordinary brickwork. For interior panels, the waterproofer may be omitted.



SECTION "Y"  
(BRICK VENEER CONSTRUCTION)



SECTION "Z"  
(WOOD FRAME CONSTRUCTION)



SECTION "Z"  
(BRICK VENEER CONSTRUCTION)



## GENERAL NOTES

**GLASS BLOCK SIZES:**—P C Glass Blocks are available in 5 $\frac{3}{4}$ "", 7 $\frac{3}{4}$ " and 11 $\frac{3}{4}$ " square sizes, and are installed with  $\frac{1}{4}$ " visible mortar joints.

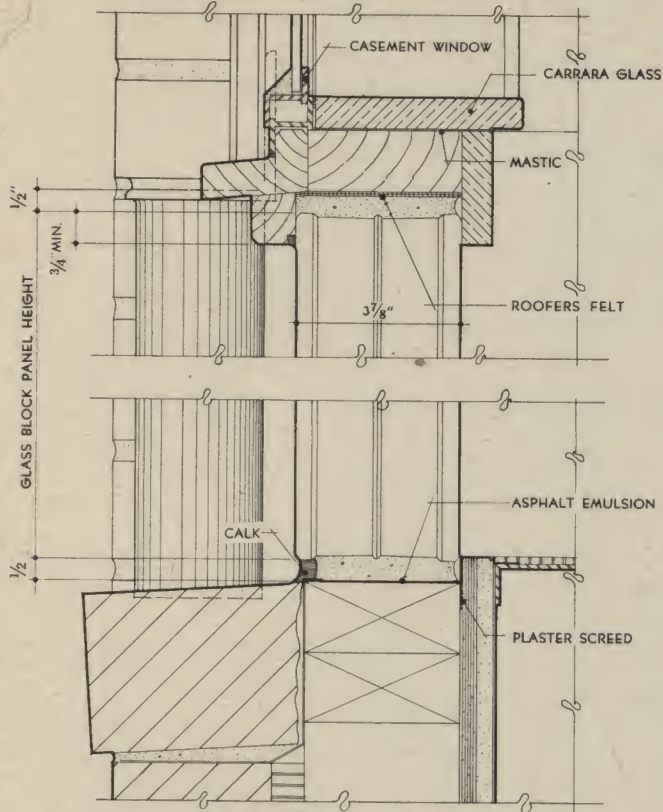
**WALL ANCHOR SPACING:**—P C Wall Anchors shall be spaced as follows:

For 5 $\frac{3}{4}$ " size blocks—Every 4th course.

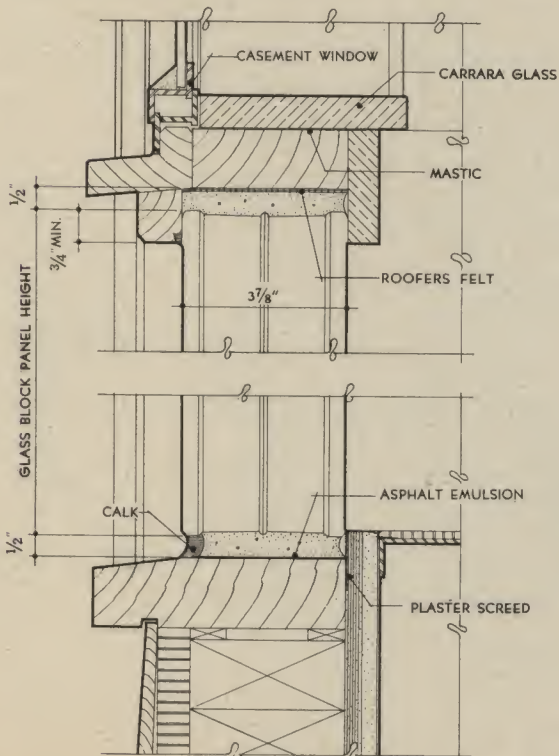
For 7 $\frac{3}{4}$ " size blocks—Every 3rd course.

For 11 $\frac{3}{4}$ " size blocks—Every course.

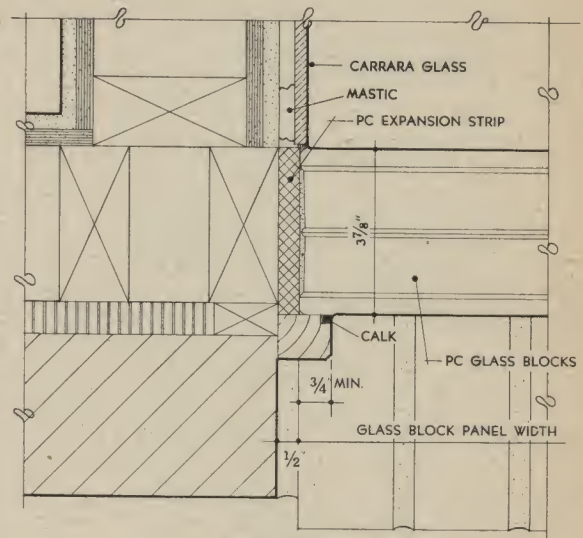
**MORTAR MIX:**—Mortar for glass blocks shall be one (1) part Portland Cement, one (1) part lime, and four (4) to six (6) parts sand all measured by dry volumes, and *integral type waterproofer*, mixed to a consistency as stiff as will permit good working, and shall be drier than for ordinary brickwork. For interior panels, the waterproofer may be omitted.



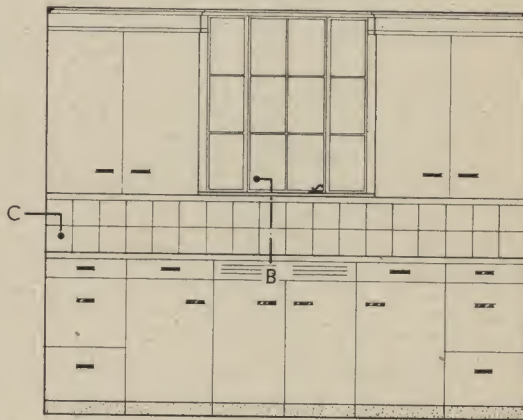
SECTION "B"  
(BRICK VENEER CONSTRUCTION)



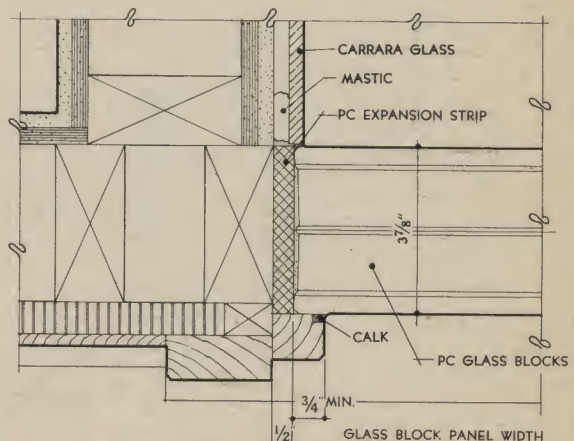
SECTION "B"  
(WOOD FRAME CONSTRUCTION)



SECTION "C"  
(BRICK VENEER CONSTRUCTION)



TYPICAL ELEVATION



SECTION "C"  
(WOOD FRAME CONSTRUCTION)



## GENERAL NOTES

**GLASS BLOCK SIZES:**—P C Glass Blocks are available in  $5\frac{3}{4}"$ ,  $7\frac{3}{4}"$  and  $11\frac{3}{4}"$  square sizes, and are installed with  $\frac{1}{4}"$  visible mortar joints.

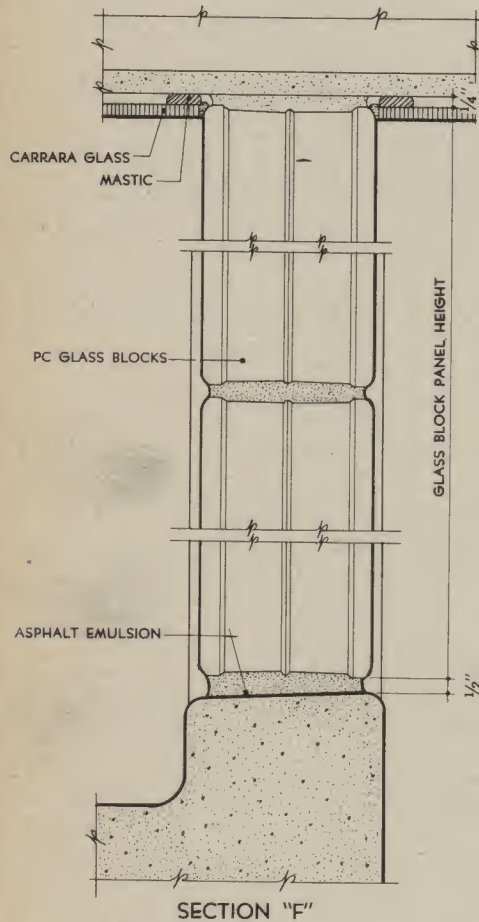
**WALL ANCHOR SPACING:**—P C Wall Anchors shall be spaced as follows:

For  $5\frac{3}{4}"$  size blocks—Every 4th course.

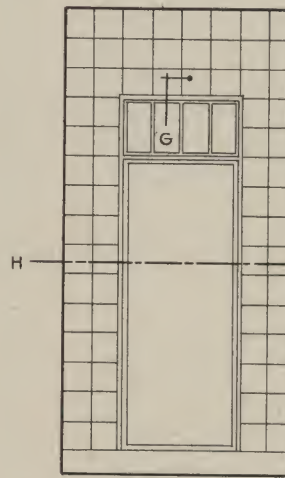
For  $7\frac{3}{4}"$  size blocks—Every 3rd course.

For  $11\frac{3}{4}"$  size blocks—Every course.

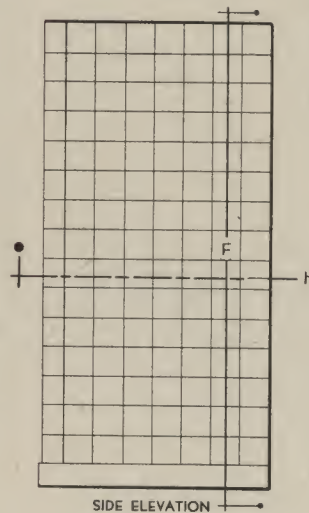
**MORTAR MIX:**—Mortar for glass blocks shall be one (1) part Portland Cement, one (1) part lime, and four (4) to six (6) parts sand all measured by dry volumes, and *integral type waterproofer*, mixed to a consistency as stiff as will permit good working, and shall be drier than for ordinary brickwork. For interior panels, the waterproofer may be omitted.



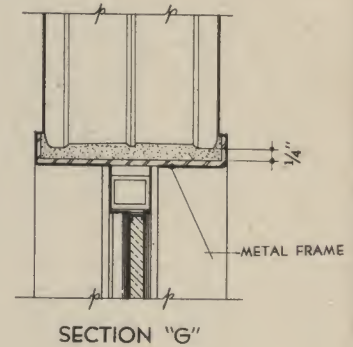
SECTION "F"



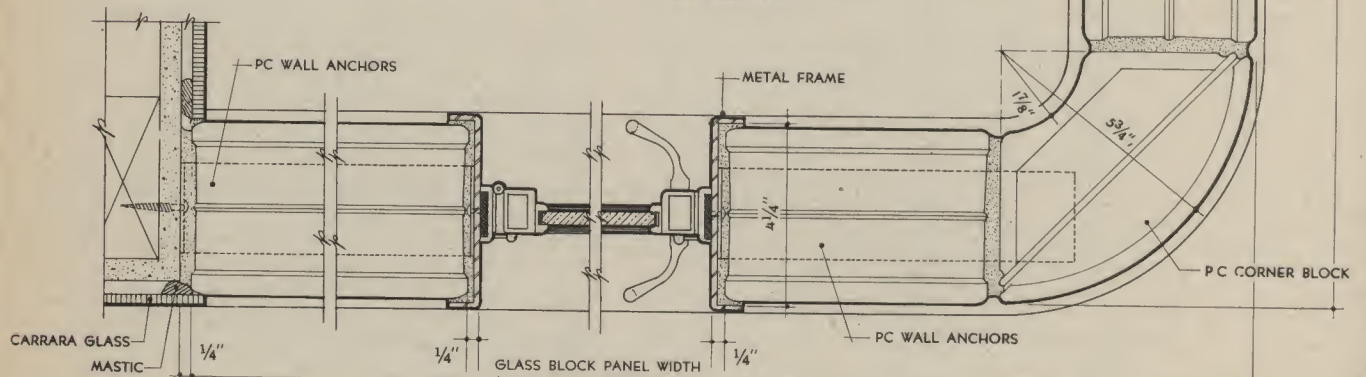
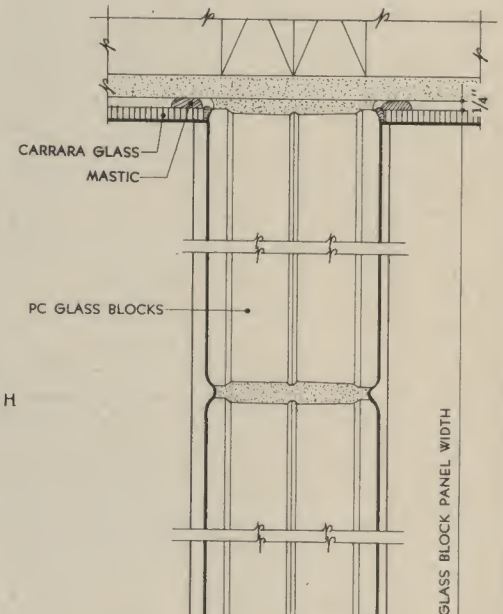
FRONT ELEVATION



SIDE ELEVATION

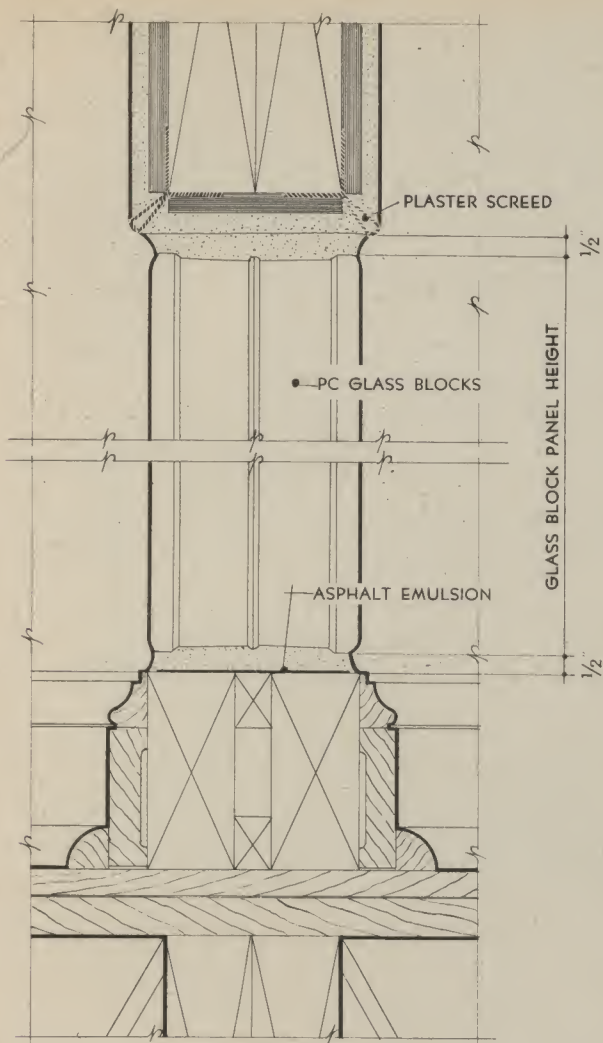


SECTION "G"

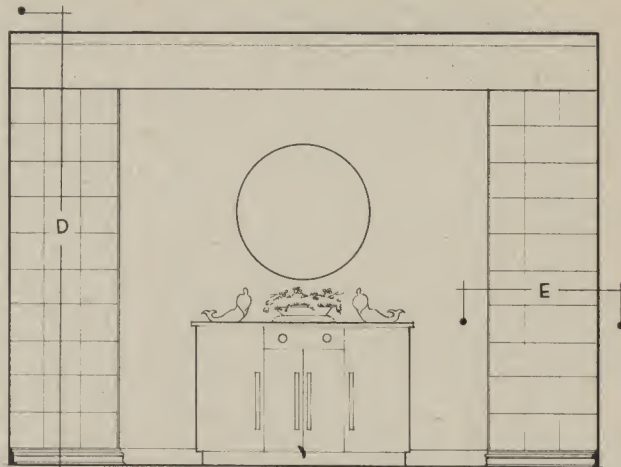


SECTION "H"





SECTION "D"



TYPICAL ELEVATION

### GENERAL NOTES

**GLASS BLOCK SIZES:**—P C Glass Blocks are available in  $5\frac{3}{4}$ " ,  $7\frac{3}{4}$ " and  $11\frac{3}{4}$ " square sizes, and are installed with  $\frac{1}{4}$ " visible mortar joints.

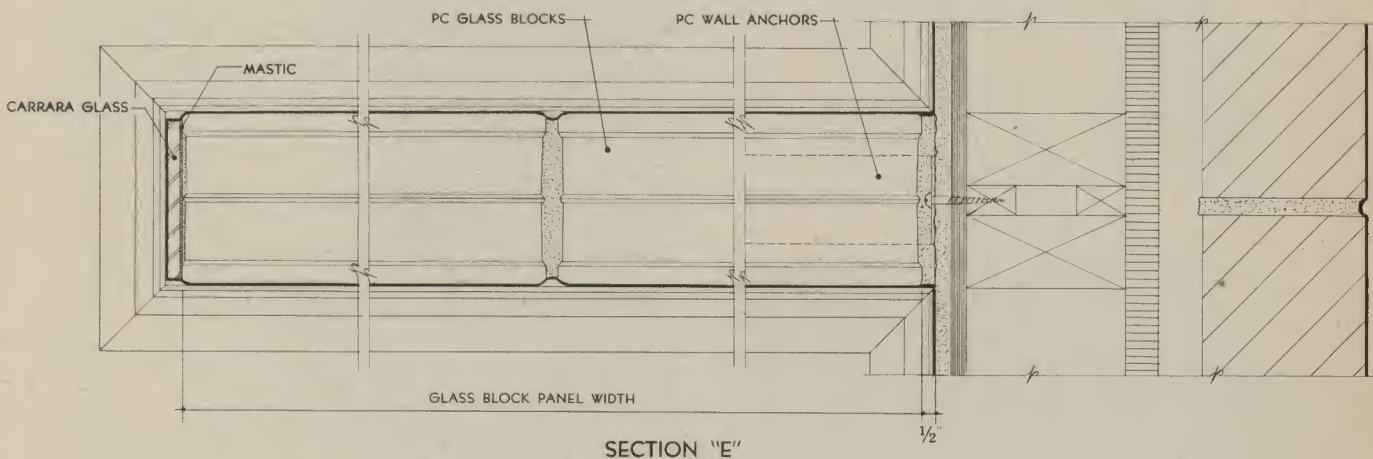
**WALL ANCHOR SPACING:**—P C Wall Anchors shall be spaced as follows:

For  $5\frac{3}{4}$ " size blocks—Every 4th course.

For  $7\frac{3}{4}$ " size blocks—Every 3rd course.

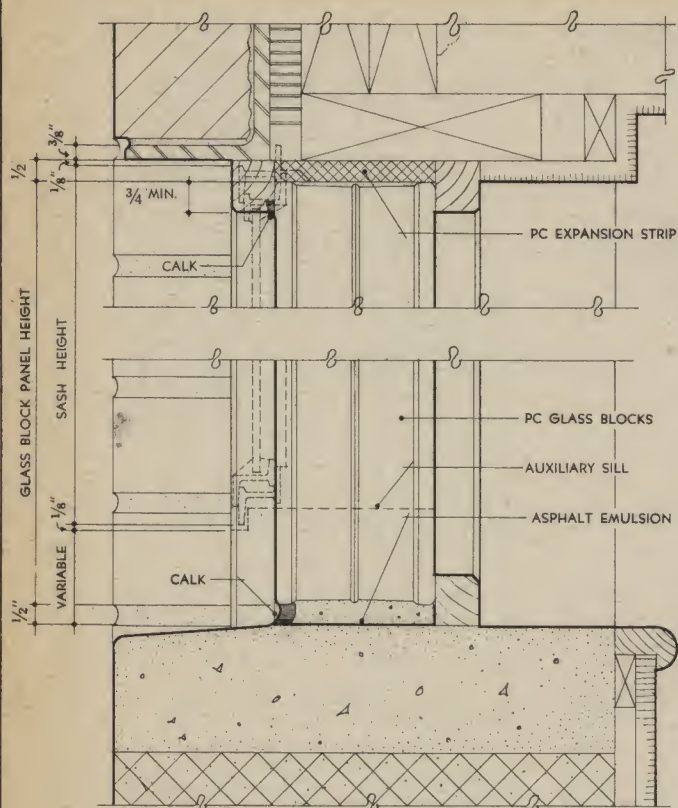
For  $11\frac{3}{4}$ " size blocks—Every course.

**MORTAR MIX:**—Mortar for glass blocks shall be one (1) part Portland Cement, one (1) part lime, and four (4) to six (6) parts sand all measured by dry volumes, and *integral type waterproofer*, mixed to a consistency as stiff as will permit good working, and shall be drier than for ordinary brickwork. For interior panels, the waterproofer may be omitted.

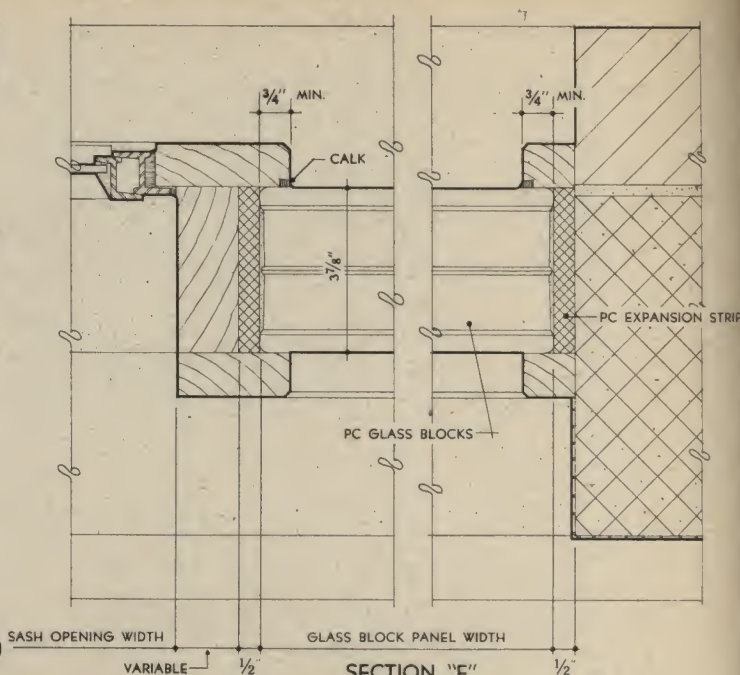


SECTION "E"





SECTION "D"  
(BRICK VENEER CONSTRUCTION)

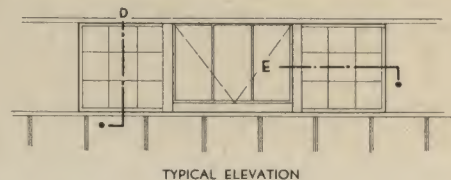


SECTION "E"  
(BRICK VENEER CONSTRUCTION)

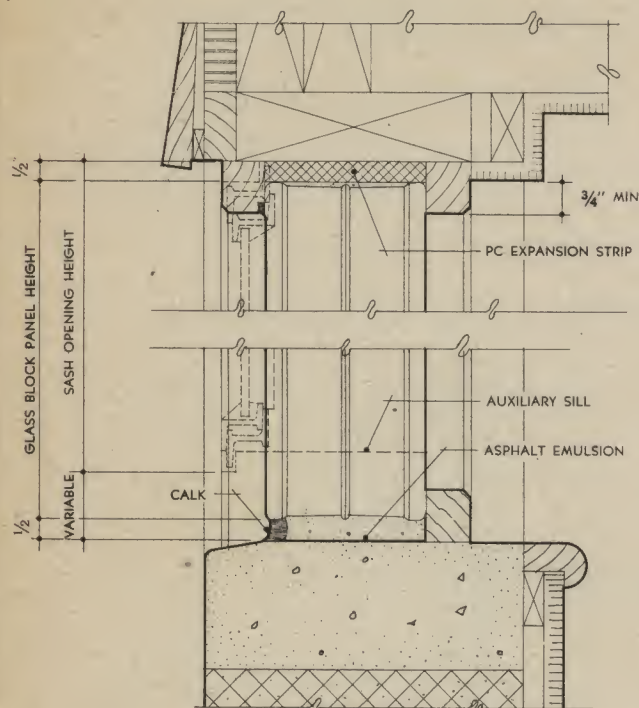
#### GENERAL NOTES

GLASS BLOCK SIZES:—P C Glass Blocks are available in 5 3/4", 7 3/4" and 11 3/4" square sizes, and are installed with 1/4" visible motor joints.  
WALL ANCHOR SPACING:—P C Wall Anchors shall be spaced as follows:  
For 5 3/4" size blocks—Every 4th course.  
For 7 3/4" size blocks—Every 3rd course.  
For 11 3/4" size blocks—Every course.

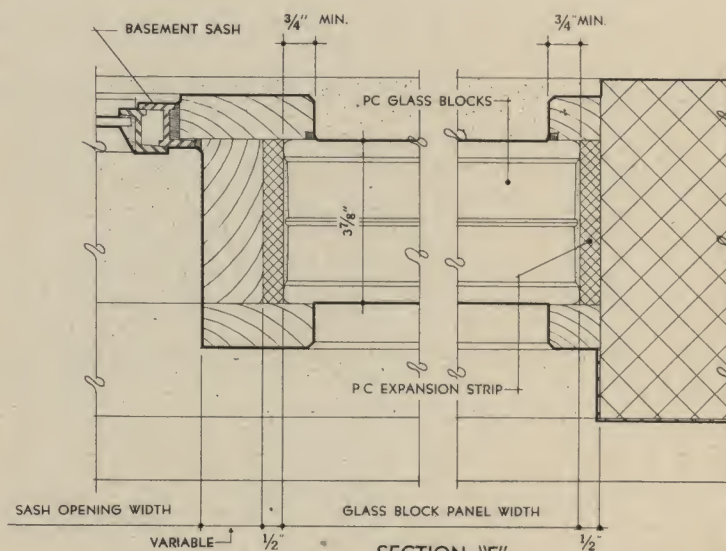
MORTAR MIX:—Mortar for glass blocks shall be one (1) part Portland Cement, one (1) part lime, and four (4) to six (6) parts sand all measured by dry volumes, and integral type waterproofer, mixed to a consistency as stiff as will permit good working, and shall be drier than for ordinary brickwork. For interior panels, the waterproofer may be omitted.



TYPICAL ELEVATION



SECTION "D"  
(WOOD FRAME CONSTRUCTION)



SECTION "E"  
(WOOD FRAME CONSTRUCTION)





Your kitchen is a pleasure to work in . . . if it has sanitary, lovely Carrara Glass walls like this one. You can select almost any color scheme you want . . . and the kitchen stays new and beautiful indefinitely.

You don't need to spend a lot of money to have a Carrara Glass bathroom or kitchen. A wainscoting of Carrara like this is quite inexpensive . . . but it dresses up the room and makes it far more practical.

← Rhapsody in green! Jade Carrara walls with Forest Green and Black Carrara trim make a fine color combination . . . and a smart, easy-to-clean bathroom.

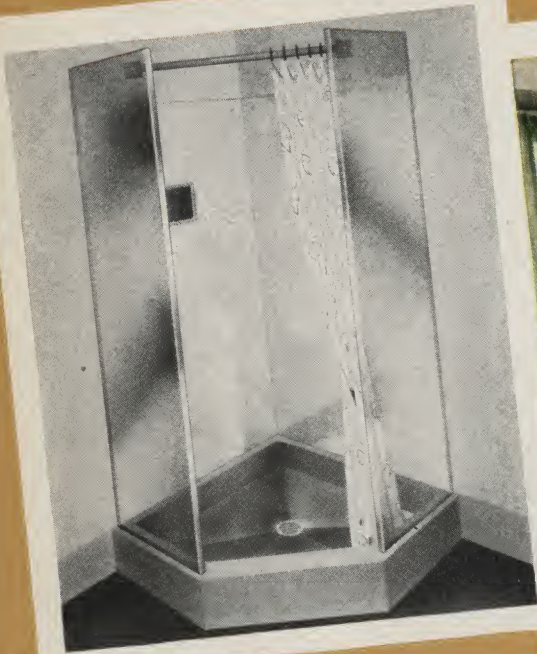
Or perhaps you prefer Ivory and Wine Carrara walls like this. Carrara Glass never checks, crazes, fades, stains or absorbs odors. It stays new permanently.



19



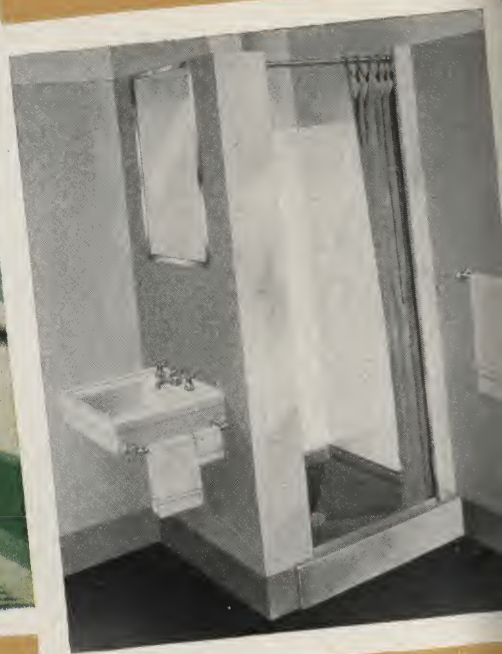




**Shower Idea:** a combination of Carrara Glass and rough plate glass . . . the whole unit prefabricated and easy to install. See installation instructions on page 11, A.



**Another shower Idea:** an enclosure of beautiful polished plate glass, set against walls of Carrara Glass. The glass door does away with the need for a shower curtain.



**And another:** prefabricated shower of Carrara Glass . . . with lavatory placed on the shower's outer wall, thus permitting water pipes to serve both shower and lavatory. A space saver. See installation instructions on page 11, B.

**Ready-built tub recess** of Carrara Glass. Shipped ready for immediate installation. A variety of colors. A choice of 24- or 48-inch high panels. Very inexpensive . . . but very effective and practical. See installation instructions on page 11, C.

**A ready-built stove panel** of Carrara Glass keeps the wall behind your stove from discoloring or scorching . . . and a damp cloth keeps it spotless and shining. Won't stain or absorb cooking odors. See installation instructions on page 11, D.





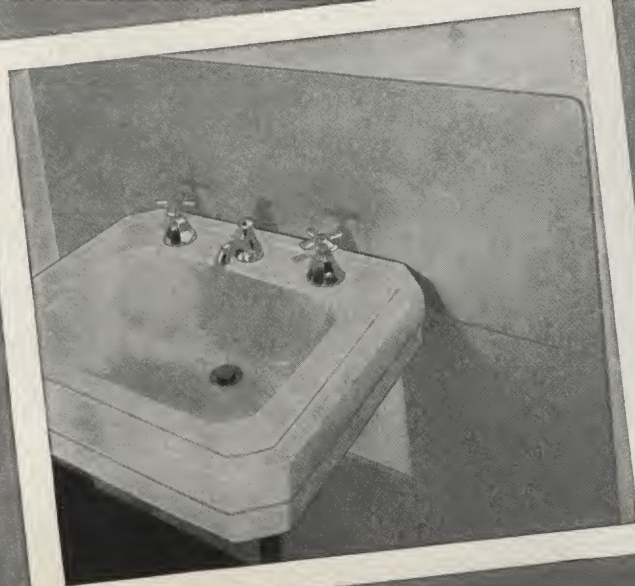


Built-in shelves of plate glass or Carrara Glass radiate smartness, cheer and charm . . . and there are several places in every home where they are exactly the needed finishing touch. See installation instructions on page 8, C.

Here's a winner of an idea . . . cost is negligible but results are very satisfying. Sills of Carrara Glass . . . easy to clean, unaffected by moisture, and very good-looking. See installation instructions on page 8, E.



How about a splash panel of polished, reflective Carrara Glass behind your bathroom lavatory? It's a spic and span solution to a constant bathroom problem. Many colors available.

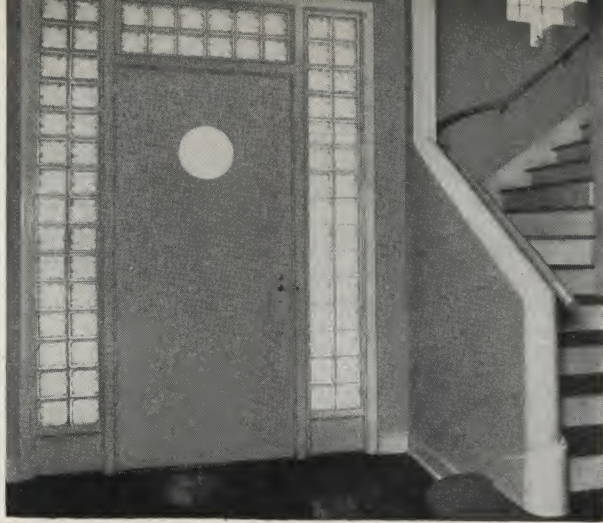


A fireplace surround of Carrara Glass lends beauty and richness to the living room's main feature. And a lovely mirror above it is an added decorative triumph. See installation instructions on page 7, B or C.

Your mantel becomes a real eye-catcher if you cover it with a Carrara Glass top to suit your living room color scheme. Just a little thing . . . but it makes a big difference in room beauty. See installation instructions on page 7, D.







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← PC Glass Blocks offer lots of opportunities to dress up your home inexpensively. Just a few blocks around your front door, for example, give it added attraction and warmth. See installation instructions on page 12.

↑ An entrance framed with glass blocks is as practical *inside* the house as it is good-looking outside. For the blocks make your entrance hall well-lighted by day. See installation instructions on page 12.

↑ If you want a tub partition in your bathroom that doesn't exclude the daylight, and still has character and good looks, try a smart, practical partition of PC Glass Blocks like this. See installation instructions on page 13.

← Floods of daylight enter your room when you have a panel of PC Glass Blocks in the exterior wall. Remember that there are three sizes, many attractive patterns of blocks to choose from. See instructions on page 14.

First aid for dark kitchens! A row or two of PC Glass Blocks above the sink and work surfaces brings in daylight where you really need it . . . and looks very smart, too. See installation instructions on page 15.

↓



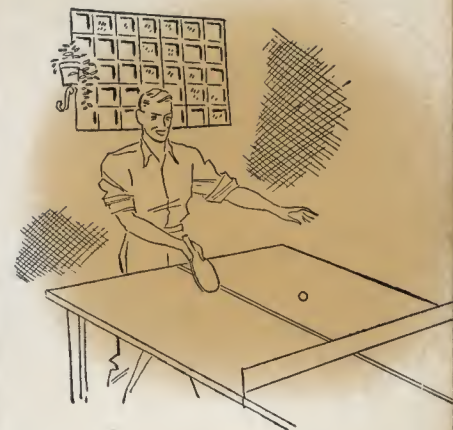




↑  
A stairwell opening glazed with PC Glass Blocks brings in lots of light for the stairs, preserves your privacy, shuts off an unwanted view, perhaps, and adds to your home's beauty. See installation instructions on page 14.



↑  
Here's the answer to the problem of not enough light in the shower enclosure. Build it of handsome glass blocks. They're translucent but not transparent, easy to keep bright and clean. See installation instructions on page 16.



→  
These blocks are fine for basement light-transmitting areas, too. They keep out prying eyes, admit plenty of daylight for game room or basement activities, and help to insulate the cellar. See installation instructions on page 18.

↓  
You'd be surprised how much glamor a couple of semi-partitions of glass blocks can add to the living room entrance, or to the arch between living and dining room. New, different and attractive. See instructions on page 17.

→  
Breakfast room or dining alcove de luxe! With panels of PC Glass Blocks to invite the sunlight . . . and keep out curious eyes at the same time. This recipe for cheerful meals is sure-fire. See instructions on page 14.



23







# PITTSBURGH GLASS PRODUCTS

*are readily available through the following branches of*

## PITTSBURGH PLATE GLASS COMPANY

AKRON 4, OHIO  
674 Carroll Street  
ALBANY 1, N. Y.  
47 North Ferry Street  
ALLENTOWN, PA.  
827 North 12th Street  
AMARILLO, TEXAS  
801 Grant Street  
ANN ARBOR, MICH.  
337 S. Main Street  
ATLANTA 1, GA.  
172 Marietta Street, N. W.  
AUGUSTA, GA.  
917 Broad Street  
AURORA, ILL.  
20 Main Street  
BALTIMORE 1, MD.  
8 South Paca Street  
BIRMINGHAM 1, ALA.  
912 North 20th Street  
BOSTON 15, MASS.  
300 Babcock Street  
BRONX 51, N. Y.  
441 Exterior Street  
BROOKLYN 1, N. Y.  
Jay, Water and Plymouth Sts.  
BUFFALO 2, N. Y.  
119 Erie Street  
BUTTE, MONT.  
840 Utah Avenue  
CHARLESTON, S. C.  
51 Wentworth Street  
CHARLOTTE 1, N. C.  
201 East Sixth Street  
CHICAGO 11, ILL.  
451 St. Clair Street  
CINCINNATI 2, Ohio  
Broadway, Court and  
Egleston Avenues  
CLEVELAND 14, OHIO  
3849 Hamilton Avenue  
COLUMBIA 3, S. C.  
1700 Main Street  
COLUMBUS 1, OHIO  
324 East Second Avenue  
CORPUS CHRISTI, TEXAS  
402 North Port Avenue  
DALLAS 2, TEXAS  
Santa Fe Terminal Building  
DANVILLE, ILL.  
140 N. Vermilion Street  
DAVENPORT, IOWA  
1545 Rockingham Road  
DECATUR 21, ILL.  
222 North Main Street  
DENVER 1, COLO.  
2519 Walnut Street  
DES MOINES 6, IOWA  
108 East Fourth Street

DETROIT 2, MICH.  
6045 Hamilton Avenue  
DUBUQUE, IOWA  
653 Main Street  
DULUTH 2, MINN.  
302 West Michigan Street  
DURHAM, N. C.  
109 West Chapel Hill Street  
ELGIN, ILL.  
210 East Chicago Street  
EL PASO, TEXAS  
1106 East Overland Street  
ERIE, PA.  
1123 State Street  
FINDLAY, OHIO  
216 S. Main Street  
FORT WORTH 1, TEXAS  
1825 Main Street  
FOSTORIA, OHIO  
119 N. Main Street  
GRAND RAPIDS 2, MICH.  
21 Ionia Avenue, S. W.  
GREENSBORO, N. C.  
333 S. Elm Street  
GREENVILLE, S. C.  
221 W. Washington Street  
HAMMOND, IND.  
420 Sibley Street  
HARRISBURG, PA.  
611 South 17th Street  
HARTFORD 1, CONN.  
40 Chapel Street  
HIGH POINT, N. C.  
1 South Hamilton Street  
HOUSTON 1, TEXAS  
101 Crawford Street  
INDIANAPOLIS 6, IND.  
59 South State Avenue  
JACKSONVILLE 3, FLA.  
601 North Myrtle Avenue  
KANSAS CITY 6, MO.  
125 West Fifth Street  
KITTANNING, PA.  
238 Market Street  
KNOXVILLE 12, TENN.  
207 Humes Street  
LACROSSE, WIS.  
712 North Third Street  
LEXINGTON, KY.  
238 E. Main Street  
LINCOLN 1, NEBR.  
1427 O Street  
LITTLE ROCK, ARK.  
112 North Scott Street  
LOUISVILLE 1, KY.  
1601 West Main Street  
LYNCHBURG, VA.  
614 Main Street

MACON, GA.  
521 Third Street  
MADISON 3, WIS.  
515 University Avenue  
MANCHESTER, N. H.  
1168 Elm Street  
MANSFIELD, OHIO  
28 S. Park Street  
MEMPHIS 1, TENN.  
435 Madison Avenue  
MIAMI 31, FLA.  
1200 Biscayne Blvd.  
MILWAUKEE 1, WIS.  
820 North Market Street  
MINEOLA, N. Y.  
49 Windsor Avenue  
MINNEAPOLIS 15, MINN.  
616 South Third Street  
MOBILE 1, ALA.  
54 N. Royal Street  
MONTGOMERY 3, ALA.  
216 Dexter Avenue  
MT. VERNON, N. Y.  
556 South Fulton Avenue  
MUSKEGON 4, MICH.  
359 Western Avenue  
NASHVILLE 2, TENN.  
1102 Grundy Street  
NEWARK 8, N. J.  
290 Elizabeth Avenue  
NEW HAVEN 13, CONN.  
26 Mill Street  
NEW ORLEANS 1, LA.  
1500 Poydras Street  
OKLAHOMA CITY 2, OKLA.  
101 East California Avenue  
OMAHA 1, NEBR.  
1402 Jones Street  
OSHKOSH, WIS.  
232 Main Street  
PADUCAH, KY.  
128 S. Third Street  
PARKERSBURG, W. VA.  
424 Seventh Street  
PEORIA 2, ILL.  
915 South Washington Street  
PHILADELPHIA 32, PA.  
3034 North 16th Street  
PITTSBURGH 22, PA.  
632 Duquesne Way  
PROVIDENCE 1, R. I.  
333 Harris Avenue  
RICHMOND 3, VA.  
302 Seventh Street, South  
ROANOKE 5, VA.  
14 Pleasant Avenue, S. E.  
ROCHESTER 8, N. Y.  
362 Exchange Street

ROCKFORD, ILL.  
123 South Third Street  
SAGINAW, MICH.  
103 Fitzhugh Street  
ST. JOSEPH 7, MO.  
707 Edmund Street  
ST. LOUIS 10, MO.  
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Central of Georgia Terminals  
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525 Cotton Street  
SIOUX FALLS, S. DAK.  
434 North Main Avenue  
SOUTH BEND 24, IND.  
1138 South Lafayette Blvd.  
SPRINGFIELD 5, MASS.  
40 Albany Street  
SPRINGFIELD, ILL.  
418 E. Adams Street  
SPRINGFIELD, MO.  
320 South Avenue  
SPRINGFIELD, OHIO  
34 North Fountain Avenue  
SYRACUSE 1, N. Y.  
838 Erie Boulevard, West  
TAMPA 1, FLA.  
102 Madison Street  
TERRE HAUTE, IND.  
34 North Sixth Street  
TIFFIN, OHIO  
66 E. Market Street  
TOLEDO 6, OHIO  
2410 Albion Street  
TOPEKA, KAN.  
922 Kansas Avenue  
TULSA 1, OKLA.  
301 East Archer Street  
UTICA 3, N. Y.  
615 Eagle Street  
WASHINGTON 2, D. C.  
1545 New York Ave., N. E.  
WASHINGTON, PA.  
238 W. Chestnut Street  
WICHITA 1, KAN.  
245 N. Water Street  
WILKES-BARRE, PA.  
54 Scott Street  
YOUNGSTOWN 3, OHIO  
25 North Watt Street  
ZANESVILLE, OHIO  
306 Main Street

### ON THE PACIFIC COAST, THROUGH THE BRANCHES OF W. P. FULLER & CO.

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SANTA ANA, CALIF.  
SANTA BARBARA, CALIF.  
BUTTE, MONT.  
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SEATTLE, WASH.  
SPOKANE, WASH.


TACOMA, WASH.

WALLA WALLA, WASH.

YAKIMA, WASH.

*"PITTSBURGH" stands for Quality Glass and Paint*





*Blo-Fan*

**CEILING "SPOT" VENTILATION**



**MORE THAN A FAN...  
MORE THAN A BLOWER!**

**PRYNE & CO., Inc. • LOS ANGELES**



# Keep that NEW home LOOK...LONGER

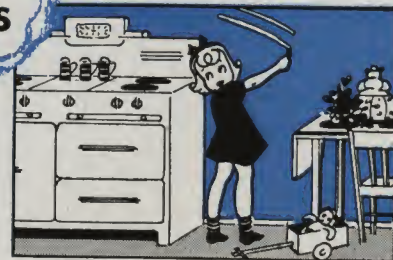


"HOW new, how clean, how fresh!" exclaim your friends when they arrive to inspect the new home . . . Think what it means to keep that new home looking new long past the time when its lustre normally will have gone! It is easy to do so through proper ventilation. You can protect the walls and woodwork, the drapes and furnishings from the dulling effects of greasy cooking fumes, bathroom and laundry steam, gameroom smoke and odors. If you "spot" ventilate these rooms with Blo-Fan Ceiling Ventilators, you will continue to draw favorable comments about your housekeeping from your guests for years to come.

## COOKING GREASE... *Enemy* of FINE FINISHES

Every housewife knows how difficult it is to keep kitchen odors from spreading throughout the house. Kitchen vapors deposit minute particles of cooking grease on everything they touch, regardless of what type of range she uses. Microscopic

layers of grease catch dust which, when removed, acts as an abrasive on fine finishes. There is a simple, easy, economical way—the Blo-Fan Ceiling Ventilator way—to remove this cooking grease *before* it can spread or settle.



"Look, Mother, I can write on the wall!"



"What makes the drapes so smelly, Mother?"

### Gameroom ODORS

Little wonder that the morning-after odors of the gameroom are repulsive. And they are so unnecessary! The air, while the guests are there, can be changed constantly—the smoke and odors carried out of the house by a Blo-Fan Ceiling Ventilator.

### Bathroom EMBARRASSMENT

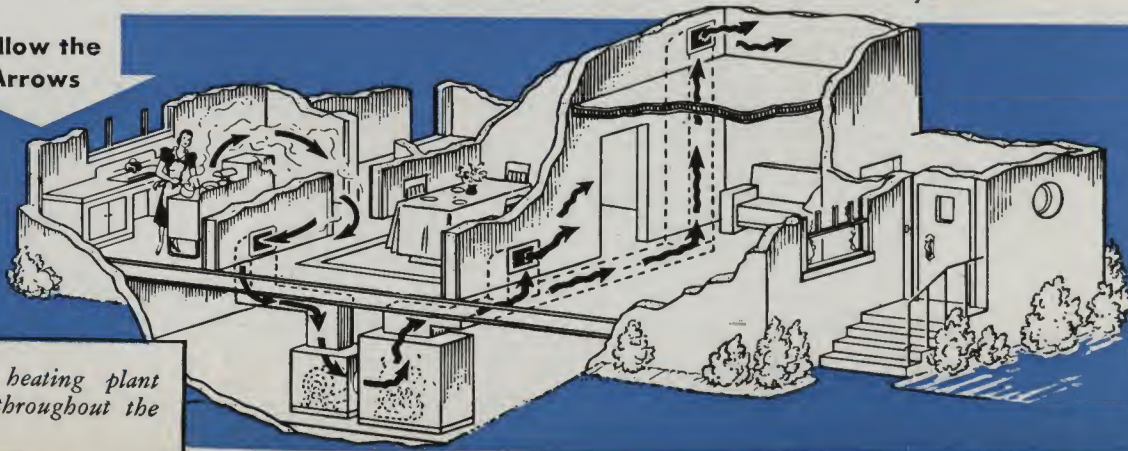
And that terrible bathroom problem, so embarrassing when guests are in the house! Those steamy, dripping walls—those fogged windows and mirrors! A low cost little "Junior" Blo-Fan Ventilator will solve the problem economically.

## WINTER or SUMMER - PROPER VENTILATION IS *Important*

If your home is heated by forced air, the winter ventilation problem will be aggravated—for the unwanted kitchen, bathroom and gameroom air which escapes into adjoining rooms will be vigorously pumped throughout the house!

And if your home is air conditioned, the summer ventilating problem will be even worse, for doors and windows are more tightly sealed. Filters soon clog—but they won't take out the odors even when they're new.

Follow the  
Arrows

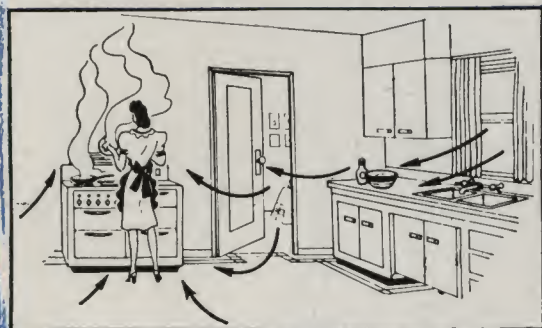


How the forced air heating plant pumps greasy vapors throughout the house.



# How Air Currents move...

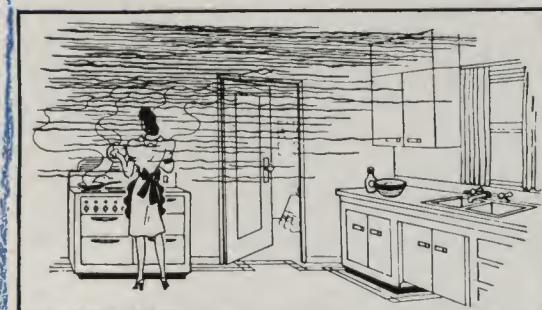
## IN AN UNVENTILATED KITCHEN



**1** Outside air enters through the windows and doors. It moves naturally across the room toward the range to replace heated air which is rising from the range to the ceiling.



**2** This heated air rises rapidly and spreads as it reaches the upper part of the room. It is caught in cross drafts and carried into other rooms . . . Remember, if you can smell cooking odors, you know the greasy laden vapors are there!



**3** The accumulation of this unwanted air is known as "kitchen fog." It banks down into the room and extends into the "living zone," where it adversely affects cleanliness, health and comfort.

## IN A KITCHEN WITH A SIDEWALL VENTILATOR



A fan located in the outside wall, across the room from the kitchen range, is only a half-way means of ventilation. Greasy cooking steam then must be literally dragged across the ceiling to the fan. This air is caught in cross drafts and blown into other rooms. Nearby open windows nullify fan efficiency by providing an easier air supply and leaving the range section only slightly affected.

## IN A KITCHEN WITH A

## *Blo-Fan* CEILING VENTILATOR



With a Blo-Fan "Spot" Ventilator directly over the range, cooking odors and fumes do not bank or spread, but are discharged as fast as they form and rise. An invisible "hood" of air currents is formed that changes so frequently it never needs cleaning. Greasy cooking steam does not have an opportunity to soil even the ceiling. Blo-Fan acts as a "booster" for natural ventilation which invariably is UP.



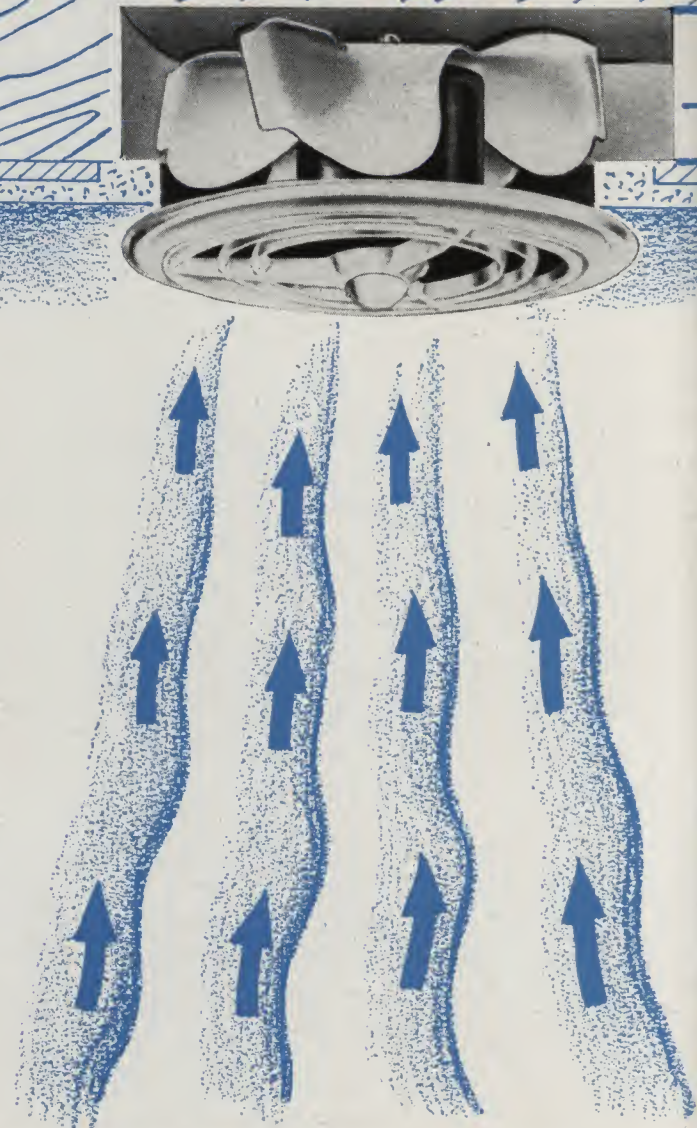
Blo-Fan

# HOW Blo-Fan "SPOT" VENTILATION

**Blo-Fan HAS VOLUME  
PLUS POWER**

THE Blo-Fan Ceiling Ventilator is a patented combination of breeze fan and blower principles. It has the **VOLUME** of the fan plus the **POWER** of the blower. It provides a forced draft opening *directly over the source* of the foul air.

This "Spot" ventilation catches steam, smoke and vapors as they rise to the ceiling and immediately whisks them away through the duct. The Blo-Fan scoops up the unwanted air *as it forms* — ahead of window and door drafts and cross air currents — before it has a chance to spread!





*Blo-Fan*

# REMOVES UNWANTED AIR

The Blo-Fan does not require vapors to be dragged across the ceiling. The air currents travel naturally UP, straight into the grille of the Blo-Fan. There is less competition with cross drafts into other rooms.

Any ordinary ventilator must be several times as large as the Blo-Fan to do equally as good a job of ridding the room of odors and vapors.

## *Blo-Fan* OFFERS NEW HOME INSURANCE

Blo-Fans will help keep that new home looking new longer. Cleaning, redecorating, replacements — all will be greatly postponed.

The Blo-Fan is designed along entirely different lines than other ventilating fans. It is a radical advance in ventilation engineering. Yet, it is neither new nor untried. Thousands of Blo-Fans were installed before the war and are in constant use today. Many thousands more will be installed soon.

Odors will be kept out of the rooms. Dinner menus will not greet your guests in the living room.

Kitchen and laundry will be kept cooler in summer. The air will be fresher and purer. Bathrooms will be kept to themselves — and without foggy mirrors and windows.

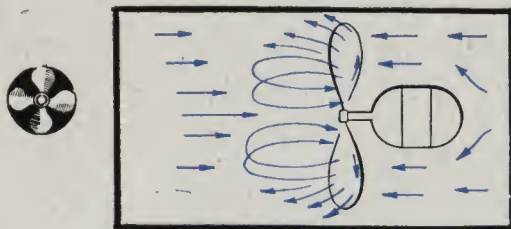
Blo-Fans will add immeasurably to your family's health as well as comfort. There will be less humidity, less drafts, fewer opportunities for catching colds. The small investment you make in Blo-Fan "Spot" Ventilators soon will pay for itself in many ways.



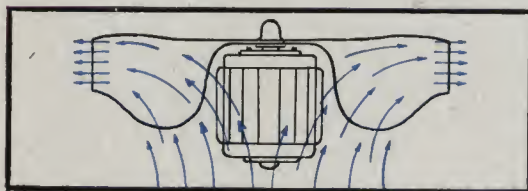
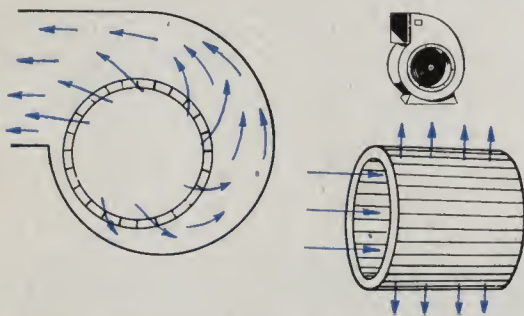


# Why Blo-Fan EXCELS

An ordinary electric fan moves a lot of air, but it lies down on the job against headwinds, louvers, doors, and ducts. Seventy-five percent of the air is delivered from the extreme tips of the fan blades because of their more rapid travel. The result is a low pressure in the center half of the fan. Even mild resistance forces the air from the tips back to the center, where it is merely recirculated . . . A breeze fan has *volume*, but lacks power.



A blower—commonly used in industrial ventilation—moves much less air than a breeze fan, but it packs that air by centrifugal force against resistance. Because the blower throws the air in all directions, the air thins out in the center, reducing the amount of air available for discharge . . . A blower has *power*, but lacks volume.



By combining both the principles of breeze fan and blower, the Blo-Fan eliminates the "dead" spot in the center of the fan and the "thin air" spot in the center of the blower. The specially designed cup-shaped blades of the Blo-Fan supply the blower portion with all the air it can discharge through the duct. These combined advantages, added to the "over-the-spot" location, make the Blo-Fan twice as effective as an ordinary sidewall fan of equal size installed across the room from the kitchen range.

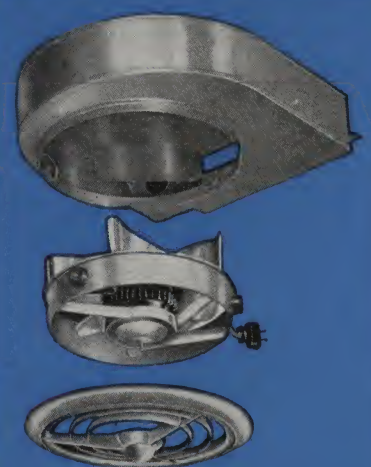


*Installed in the Ceiling — Only the Grille Shows*

The Blo-Fan consists of three parts: the grille, the fan (with its enclosed electric motor) and the housing. These nest together in the ceiling so that only the attractive aluminum or chrome plated grille is exposed.

The Blo-Fan unit is placed between the ceiling joists and ducted to the exterior of the house, either through the roof or the nearest outside wall. A wall cap, scientifically designed to minimize resistance of headwinds, is used for weather protection in the latter case, while a roof jack answers the same purpose in vertical installations.

*Exploded view showing the three sections of the Blo-Fan*

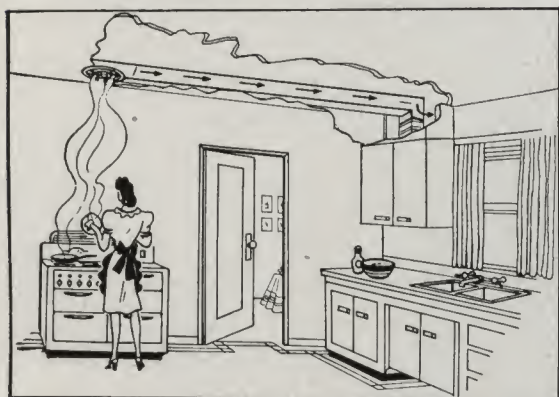
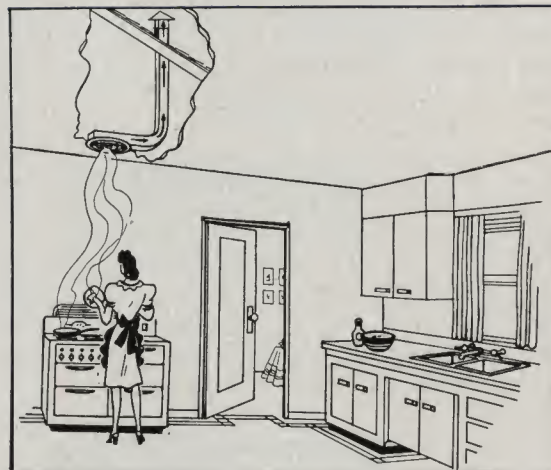




# How Blo-Fan is installed

## 1 Vertical Discharge

Roof venting is used mostly in one-story houses, but is also adaptable for two-story construction when the duct is run up through the second story partition. For vertical exhaust a specially designed elbow is used. The elbow is curved and baffled to efficiently turn the air current, and is attached to a standard  $3\frac{1}{2} \times 10$ " furnace duct (roof jack to be supplied by the tinner). In specifying, give model number and follow with "-1" for the elbow - for example, "No. 210-1" (if light combination is desired, it would read, "No. 210-4-1").



*In a Cabinet*

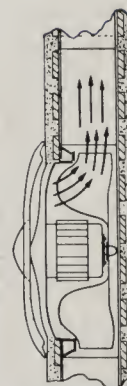
## 2 Horizontal Discharge

Discharge by running the duct between the ceiling joists and out the side of the house is the most common method. It may be used in either 1 or 2 story construction. Standard  $3\frac{1}{2} \times 10$ " furnace duct is used to connect housing and wall cap. In specifying, follow model number with "-2"; for example, "No. 210-2."

*In a Back Wall*

Sometimes it is desirable to set the Blo-Fan in an inside wall back of the range. In this case the ventilator may be ducted either up or down.

## 4



-2 Cap

## How to Specify

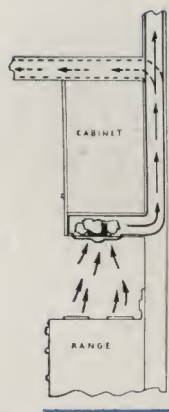
Blo-Fans are installed by electrical contractors and electrically licensed sheet metal contractors. Installation should be made before plastering. Wall cap should be set by carpenter or mason during construction of outside wall. Specification should call for a definite stock number or model, in order to avoid misunderstanding on the part of the contractor and disappointment to the owner.

### Specification Data for Blo-Fan

	Model	Size	Speeds	Watts	With Elbow	With Wall Cap†	With Light
206	"Junior"	$11\frac{1}{2} \times 13\frac{3}{4} \times 4\frac{1}{4}$	1	38	206-1	206-2	
208	"Standard"	$14 \times 16 \times 4\frac{1}{4}$	1	58	208-1	208-2	208-4*
210	"De Luxe"	$14 \times 16 \times 4\frac{1}{4}$	2	136	210-1	210-2	210-4*

\* If elbow or wall cap is desired also, add proper dash number.

† Wall cap is flush and contains auxiliary louvers to prevent back draft.



-1 Elbow



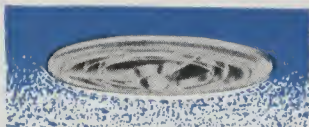
## THREE DIFFERENT SIZES

No. 206  
"Junior"



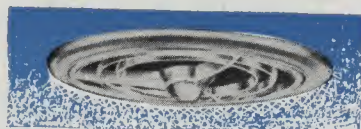
Bathrooms, kitchenettes and other *small* rooms can be ventilated with a No. 206 "Junior" Blo-Fan which has one speed, is equipped with an enclosed 1/70th horsepower motor and uses only 38 watts. A standard wall switch is required.

No. 208  
"Standard"



For medium sized kitchens, dens and laundries, specify a No. 208 "Standard" model. This has one speed, and uses a 1/40th horsepower fully enclosed electric motor consuming only 58 watts. A standard wall switch is required.

No. 210  
"DeLuxe"

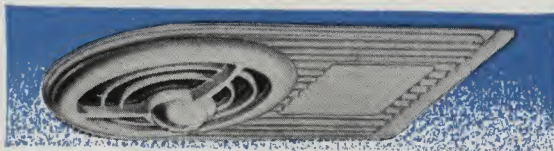


For large kitchens, gamerooms, home bars, etc., you will want a No. 210 "DeLuxe" Blo-Fan. This is equipped with a two-speed, 1/25th horsepower, fully enclosed motor using 136 watts. This unit includes wall switch and speed control.

\* \* \* \* \*

All three models have rubber-mounted motors. They all use the same size ducts, the same elbows for roof discharge and wall-caps for wall discharge.

—4  
Fan and  
Light



No. 208 and 210 Blo-Fans may be had with a 100-watt recessed light. Fan and light are controlled by separate switches. Add "—4" (dash four) to the model number to specify this combination.

*Economical*

## TO OPERATE

Blo-Fans are not only within the means of nearly every home owner, in their moderate first cost, but are economical to operate. They use only as much electricity as light bulbs of similar wattage and are operated by merely turning on or off the conveniently located wall switch. Blo-Fans offer no radio interference.

Each unit is sturdily built of the finest materials available and will stand up for years under hard service.

## GUARANTEE

Blo-Fans are fully warranted by a five-year pro-rated guarantee. This guarantee is backed by a firm with nearly a quarter of a century of specialized domestic ventilation engineering experience.

ASK YOUR ARCHITECT AND BUILDER TO SPECIFY A  
CLEANER, MORE COMFORTABLE HOME BY INCLUDING

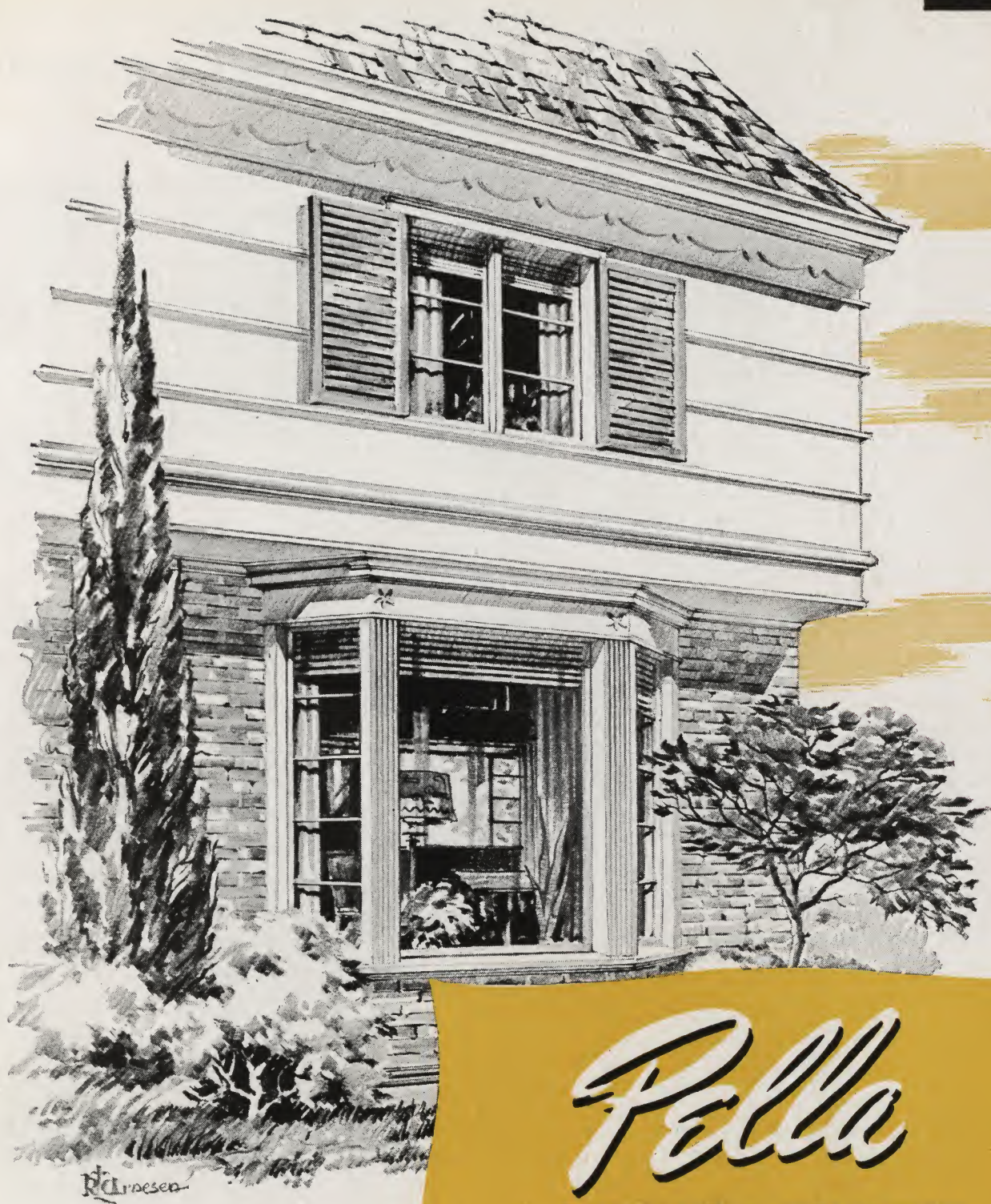
**Blo-Fan**  
"SPOT" VENTILATORS

**PRYNE & CO., INC.**

1245 E. 33rd STREET, LOS ANGELES 54 • NEW YORK • CHICAGO • SAN FRANCISCO • SEATTLE

Blo-Fans are distributed by the General Electric Supply Corporation and selected independent wholesalers in every principal city





*Fella*

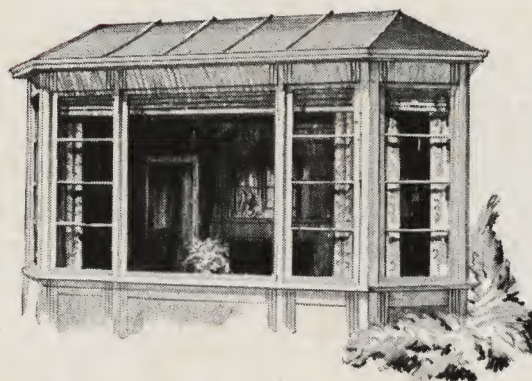
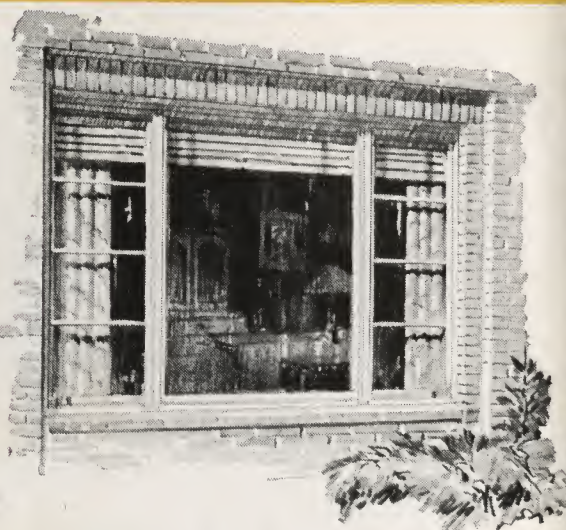
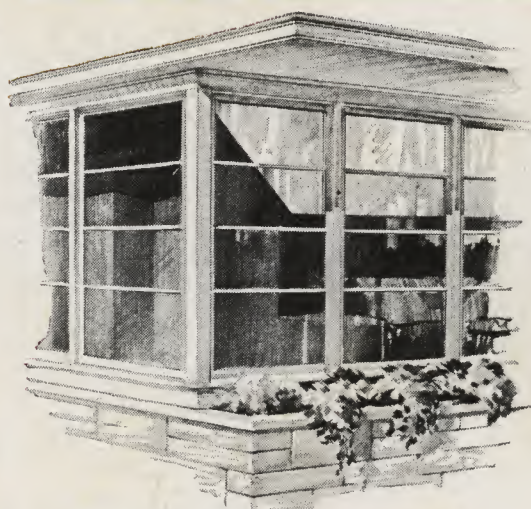
- CASEMENT WINDOWS
- ROLSCREENS
- VENETIAN BLINDS



*Pella*

**CASEMENTS, the only complete**  
**ROLSCREENS • DUAL GLAZING •**

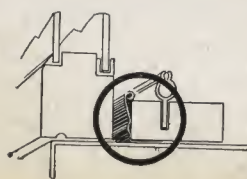
HARMONIZE  
WITH ALL STYLES  
OF ARCHITECTURE



WHEN YOU BUILD, choose your windows *carefully* . . . for they represent a major portion of your complete home investment. Once installed they become an integral part of the walls. Mistakes are difficult to correct; therefore costly. Windows in your future home must be highly

EFFICIENT . . . or heating, air conditioning and window maintenance costs will soar. The difference in cost between ordinary windows and *highly efficient* Pella Casements is small enough when spread over the entire period of home purchasing.

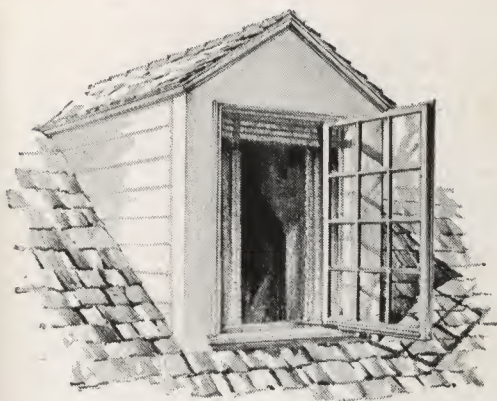
**ROLSCREENS . . . THE ORIGINAL INSIDE SCREENS THAT ROLL UP AND DOWN LIKE WINDOW SHADES**—Always in place. No putting up . . . no taking down. No painting . . . no storing. Inconspicuous. Finger-tip operation. Screen wire is 16 mesh, rust-proofed "AluminA" with triple selvage and 4 double strands of wire at edges for *extra* strength. Guaranteed for 10 YEARS.



**EXCLUSIVE DESIGN WEATHER STRIPPING**—This compression-type weather stripping makes Pella Casement sash **DRAFT TIGHT**. Cam-action sash locks compress it under heavy pressure. Seals against drafts and moisture along all 4 sides of sash. Paint can't clog it. This kind of weather stripping is an *exclusive* Pella feature.



## windows equipped with WEATHER STRIPPING



But, better yet, such difference is soon returned in the form of annual savings on fuel bills, cleaning labor, screen and storm sash care. So, remember, for greater **EFFICIENCY**... plus **BEAUTY** and **CONVENIENCE**, *only* Pella Casements offer *all* of the following illustrated features.

**STORM SASH YOU NEVER STORE. PROTECT AGAINST WINTER COLD AND SUMMER HEAT**—The truly modern, year around "storm-window". Consists of a single panel of Libbey-Owens-Ford DSA glass, set in a rubber-lined rust-proofed steel frame. Panel mounts on the inside of casement sash. Never interferes with ventilation. Easily removed. Pella Dual-Glazing is highly recommended for air conditioned homes.

**SEND FOR FREE BOOK**  
"Pella Window Ideas"

24 pages showing many helpful window ideas. Simply fill in attached Business Reply Card and Mail today. No postage necessary.



## CONSTRUCTION FEATURES

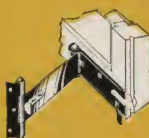
... that save money ... give extra convenience

### EASY TO WASH

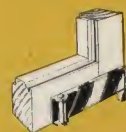
It's no trick to keep Pella Casements sparkling clean because you can wash *both* sides from the inside! First, raise the Rolscreen. Wash inside. Then open sash and Pella's special double pivot hinge turns sash for outside washing. Pella Casements stay cleaner longer because there are no old-fashioned outside screens to collect dust which spots the windows each time it rains.



### SPECIAL PELLA HINGE

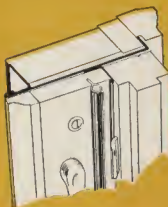


This sturdy hinge is extra strong! An open sash is so well supported it will carry a man's weight without sagging the hinge. Riveted to the steel casement frame. It's burglar-proof!



### PRE-FITTED AT FACTORY

Factory fitting and assembling save materially on construction costs. A package unit. One man can complete a weather tight installation in about 20 minutes. Pella Casement units are 20% oversize too, thus saving on wall construction costs.



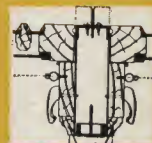
### STEEL FRAME REINFORCES CLEAR WHITE PINE SASH AND JAMB

Steel for strength *plus* wood for beauty and insulation are ingeniously combined in Pella Casement Windows. The rigid steel frame is made of heavy 1/16" rust-proofed, galvanized (zinc impregnated) steel. Welded joints. Steel frame "sweating" is prevented by clear pine sash and jamb lintel giving the interior appearance of a beautiful wood window. Fits all kinds of wall construction.



### NEAT, NARROW MULLIONS

Both Pella corner mullions and joining mullions are narrower; neater appearing. Admit more light and more view. Save construction time. Both are prefabricated at factory.



### GENUINE WHITE PINE SASH IS TOXIC TREATED

All Pella Casement sash are made from fully seasoned *clear* White Pine. Toxic treated with Woodlife, the sash is made water repellent and dimensions are stabilized. Durability assured.

### HUNDREDS OF WINDOW ARRANGEMENTS FROM STOCK SIZE PELLA UNITS



Pella's system of stock-size window units enables you to achieve "custom" window effects at *no extra cost*. Pella units combine into any proportion of width and height, using small panes, long horizontal lights or large "picture" windows.

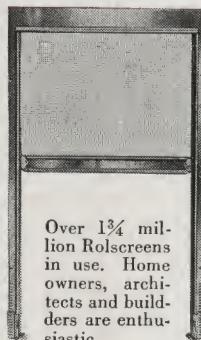
**ROLSCREEN  
COMPANY**



# Pella ROLSCREENS . . . the original window screens that roll up and down like window shades . . . . .



## FOR ALL TYPES and MAKES of WINDOWS



A touch of the fingers and a Rolscreen rolls up automatically onto its hidden roller. Lowered in place just as easily.

Pella Rolscreens are easily installed on all types of windows and at any time. Planned for your windows when you build, they can be completely concealed. Just imagine the convenience of pressing a button and storing your screens for a day or a season. No putting up . . . no taking down. No painting . . . no storage.

Will not bulge or tear. Moderate in cost and protected with a 10-YEAR GUARANTEE. Be sure your Architect or Builder uses Pella Rolscreens in your home. They are the permanent answer to screening problems.

The appearance of your whole house will be improved because windows won't have that "blurry" look that goes with ordinary screens. If you should ever wish to sell your home, you will discover like so many others, that Rolscreened windows are a forceful sales feature.

Children are safer because Rolscreens are "locked-in" securely at top, bottom and on both sides. Rolscreens cannot be unlocked from the outside.

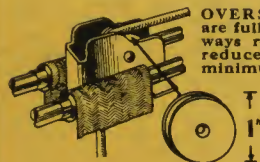
### SEND FOR FREE BOOK

"The Lifetime Window Screen"  
Complete information on Rolcreens. Simply fill in attached Business Reply Card and mail today. No postage necessary.



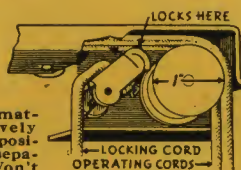
## Pella VENETIAN BLINDS

All mechanism concealed in neat headpiece



OVERSIZE PULLEYS are full 1" diameter. Always roll. This feature reduces cord wear to minimum.

CORD LOCK automatically and positively locks blind at any position by means of separate locking cord. Won't cut cord!



The lasting loveliness of your home will be enhanced by the enduring beauty of Pella Venetian Blinds. Only special hand-selected straight grained wood goes into Pella slats. Warranted for two years against warpage. Pella Blinds nest up into a "bundle" that is 20% smaller in size. No "peek holes" at top for light to streak through. They may be left undraped at the top without impairing the beauty of your windows.



ROLSCREEN COMPANY

PELLA, IOWA

### SEND FOR FREE BOOK

"For Those Who Want The Finest"


Shows how Pella Blinds lend exciting decorative notes to windows. Simply fill in Business Reply Card attached. No postage necessary.





**A BRIEF GUIDE TO  
W I N D O W  
S H O P P I N G**

**TRUSCON STEEL COMPANY  
YOUNGSTOWN 1, OHIO**



**RESIDENTIAL STEEL WINDOWS  
In Double-Hung and Casement Types**





7

"What kind of windows would you prefer for your home of tomorrow?" That question was put to hundreds of men and women — prospective home buyers and builders by the Ross Federal Research Organization. The verdict? Better than 7 out of 10 persons consulted . . . to be exact, 76.3% of them stated a definite preference for steel windows over ordinary windows. To win such an overwhelming preference, steel windows would have to offer Mr. and Mrs. Home Builder substantially greater value. We believe they do!



#### FOR DURABILITY

Truscon Steel Windows have a reputation for proved durability. The skill and experience which produced the design and construction for windows in such famous structures as the Empire State, Marshall Field, Rockefeller Center and U. S. Department of Commerce buildings, is the same skill and experience that goes into the design and construction of Truscon's Residential Double-Hung Steel Windows. The window is electro-galvanized, bonderized and given a baked-on prime coat of paint.

**TRUSCON**  
*Residential*  
**DOUBLE-HUNG**  
**STEEL**  
**WINDOWS**



# *in 10* PREFER STEEL WINDOWS ..

## FOR SMART APPEARANCE

The trim, slim lines of Truscon Residential Double-Hung Windows produce a cleancut modern beauty that adds distinction to any building. The slender frame and muntin bars provide a minimum of obstruction and permit more light. Moreover, their beauty is permanent, because these windows are made of STEEL.

## FOR FINGERTIP CONTROL

Even a child, using only her fingertips, can raise or lower Truscon Double-Hung Steel Windows with ease. Precision manufacturing methods and the coiled spring type of balances with tapes of stainless steel make this possible.

## WON'T RATTLE, WARP, STICK, ROT

Open or closed, these precision-made windows never rattle. And because they are of STEEL, they cannot warp, swell or shrink.

## WEATHER-TIGHT — SAVES FUEL

Snug fit, and built-in spring bronze weatherstripping make these windows weather-tight. They lock the weather OUT . . . and help to cut heating costs.

## THEY COST NO MORE

Most amazing of all, Truscon Double-Hung Steel Windows cost no more to buy and install than ordinary windows. Completely factory assembled and delivered ready for installation, their cost will fit the budgets of the most modestly priced homes. They can be economically installed. And, because of their long life they actually cost LESS.



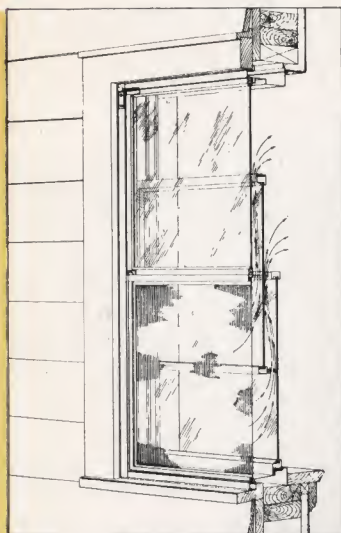


# TRUSCON SCREENS

## *Let Summer In*

### FOR SUMMER

During rainy weather the top sash may be lowered to allow ventilation. Air will enter through the screen and flow up around the meeting rail and top section of the upper sash. Arrows indicate flow of air.



# *Fitting*

# COMPANIONS FOR

Perfectly fitting combination screen and storm sash units, made especially for Truscon Steel Windows, provide the ultimate in year-around comfort for homes equipped with these windows of tomorrow.

The screen is interchangeable with the lower panel of the storm sash. When this screen is used in combination with the storm sash, ventilation can be controlled by leaving the top panel of the storm sash on the window during the summer months. In this way, full ventilation can be obtained by opening the bottom sash. But during rainy weather the bottom sash of the window proper may be left closed and the top sash lowered so that air

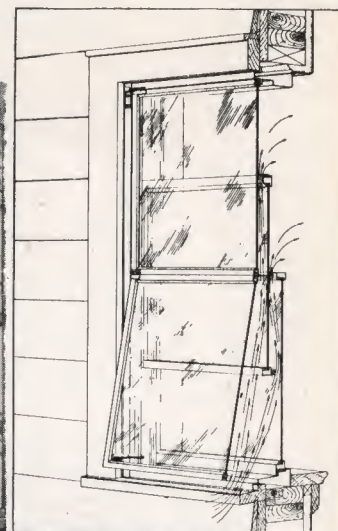


# TRUSCON STORM SASH

## *Keep Winter Out*

### FOR WINTER

Ventilation can be controlled by opening the bottom unit of the storm sash and lowering the top sash of the window proper. Air will flow up around the meeting rail and top section of the upper sash.



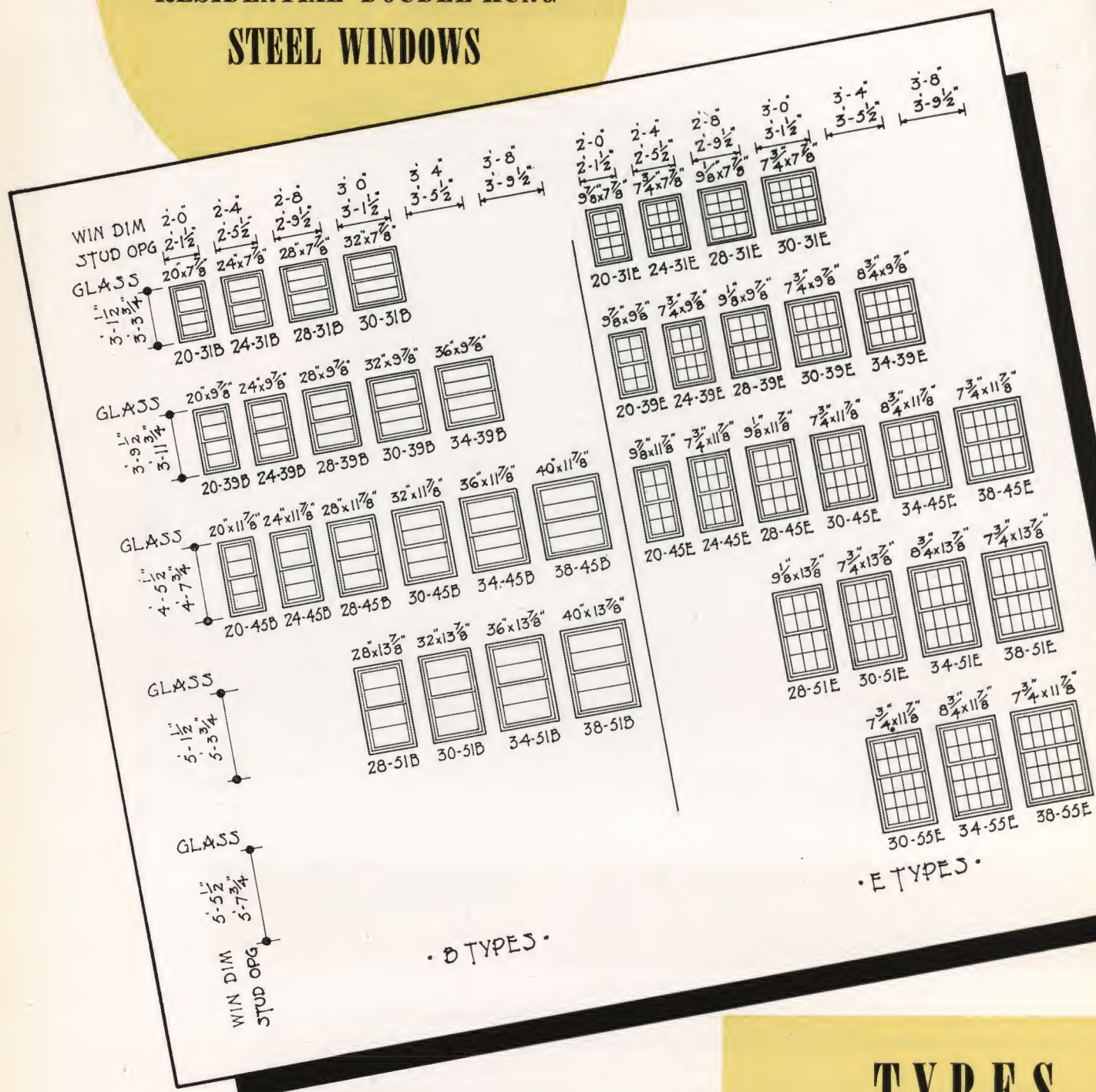
## TRUSCON RESIDENTIAL DOUBLE-HUNG STEEL WINDOWS . . . . .

will enter through screen, and flow up and through the top opening. When combination units are not desired, full or half screens are available.

Truscon Storm Sash sharply reduce heat loss through the cold winter months and thereby make possible a considerable saving of fuel. Glazed with double strength clear glass, Truscon Storm Sash are easily installed from the INSIDE in a matter of minutes. When desired, ventilation may be had instantly by opening the bottom of the storm sash and securing the arms provided at each lower corner.



# PLEASING Combinations WITH TRUSCON RESIDENTIAL DOUBLE-HUNG STEEL WINDOWS



Truscon Residential Double-Hung Steel Windows are available in types and sizes as shown above. Practically unlimited scope of window arrangement is possible.

## TYPES and SIZES



Hollis Woods, Jamaica, L.I.  
August 1, 1945.

Truscon Steel Co.,  
155 E. 44th Street,  
New York, N.Y.

Gentlemen:

About six years ago when we built our home in Hollis Woods, on the advice of a friend we used Truscon Double Hung Steel windows. I only wish everything in our home could have been as trouble-free as our windows. They have been a positive joy to live with -- no rattle in dry weather, and no sticking in damp humid weather, of which we have so much on Long Island, and still they are almost both air and dust tight. Having no high strips through the sash, nor sharp corners makes them so easy to wash and polish.

We most certainly do like our Truscon windows, and I am glad to tell you so.

Very truly yours,

*Mrs. Elsie A. Davis.*

August 7, 1945

Truscon Steel Company  
155 E. 44th Street  
New York City, N.Y.

Gentlemen:

About five years ago we built our home and upon our builder's recommendation had Truscon Residential Double-Hung Steel Windows installed. These windows have proven every claim made for them by you and we certainly recommend them to new home owners. They are, in our opinion, far superior to the ordinary window.

A few of the outstanding features of these steel windows are their smooth operation and the screens and storm windows are so standardized as to be interchangeable, eliminating the annoyance of numbering or fitting screens. They are also the simplest windows to clean and are my window cleaners' delight.

We recommend them without reservation.

Yours sincerely,

*Chris S. Hall*

REAL ESTATE  
MORTGAGES  
LOTS  
PLOTS  
ACREAGE

CHARLES J. RORECH  
BUILDER OF BETTER HOMES  
280 MILLERS AVENUE  
WILMINGTON PARK, N. Y.  
WILMINGTON CITY, N.Y.

August 2, 1945

Truscon Steel Co.,  
155 East 44th Street  
New York, New York

Dear Sir:

In the last few developments up to the beginning of the present war, I used double hung steel windows almost exclusively. I have used them in \$4,900 houses at New Hyde Park and also in \$15,000 houses at Great Neck and find that they look equally as good in either. There are many outstanding advantages in using double hung steel windows, such as:

1. Time saving in installation, since frame and sash are a unit.
2. If framing instructions are followed, the installation of double hung steel windows is an extremely simple operation. There is no fitting of frame or sash.
3. No delay for weatherstripping, since the sash are all weatherstripped in factory.
4. Saves carpenter from coming back to install sash lifts and lock, since they are part of the sash.
5. Saving on glass breakage and cleaning, as glass can be put in near completion of job.
6. Weather is no object. Double Hung steel windows can be installed in any weather without fear of causing faulty job by expansion or contraction.
7. Saving of time and labor on interior of house. Only stool and upon is necessary.

There are also many other little advantages too numerous to mention. I am starting a group of houses in the near future and hope that you will be able to supply my jobs.

Very truly yours,

*Charles J. Rorech*  
Charles J. Rorech

CHARLES G. ERNY AND JAMES A. NOLEN

BUILDERS  
1716 W. CHELTON AVENUE  
PHILADELPHIA 26, PA.  
WISCONSIN

July 6th. 1945.

Truscon Steel Co.  
1516 Walnut Street,  
Phila. Penna.

Dear Jack:

Att. J. M. Keenan.

First I want to thank you for bringing out and going over with me your new catalog and the distinct improvements that you are making to this double hung window.

The original window that I started using in our store and apartment developments were put in with many doubts in our minds; they proved very satisfactory however, and it really isn't necessary for me to tell you the extent to which we have extended their use. As a matter of fact, we have continued using the window extensively, particularly in our single unit house construction and with satisfactory results.

Frankly, we are gratified with the apparent improvements that you are making and your future market with us should be increased accordingly.

Very truly yours,

Erny & Nolen.

*James A. Nolen*

Here's Proof  
THAT TRUSCON RESIDENTIAL DOUBLE-HUNG  
STEEL WINDOWS ARE *Easy* TO INSTALL





100%  
Ventilation



Easy  
to  
Open



Maximum  
Daylight

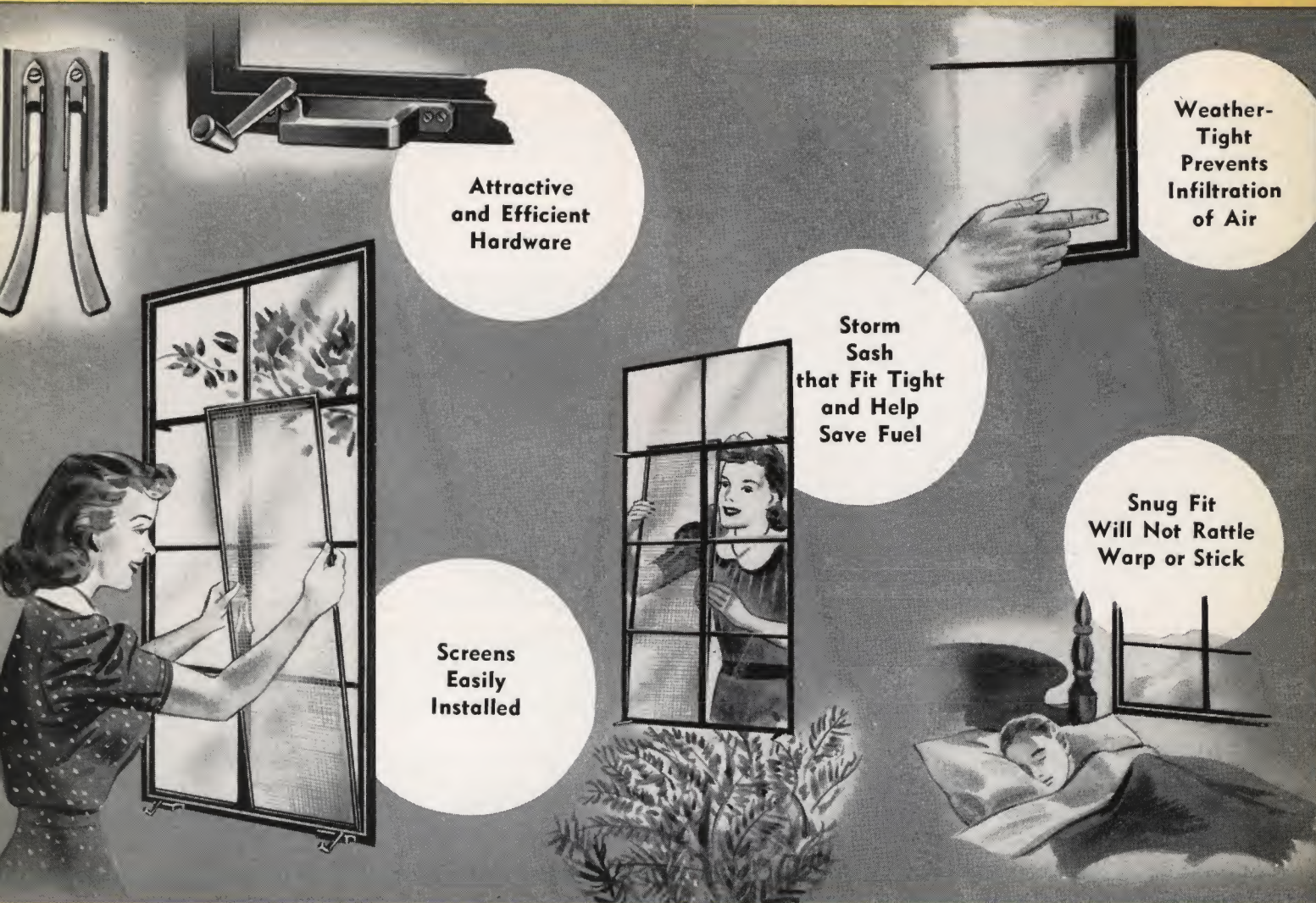


Easy  
to Clean  
From the  
Inside

TRUSCON  
*Residence*  
STEEL  
CASEMENTS

OFFER  
THESE  
ADVANTAGES





Just ask your architect or builder about Truscon Residence Casements. Famous for over a quarter of a century, these windows offer the ultimate in trim, modern beauty combined with the durability of steel. Like the double-hung windows, Truscon Casements will thrill you with their noiseless, fingertip operation. They'll please you with their permanence and safety. The screens and insulating windows for these casements are produced in exclusive Truscon design that match the unexcelled quality of the Truscon Casement Window itself.

Yes, it may be hard to believe — but it's true! The cost of these windows will not make you stretch your budget a penny! And now, just think what you get!

Windows with all the strength, durability and fireproof qualities of steel! A window whose smart, trim, modern lines offer beauty that is permanent. A window that will never rattle or stick because steel will not shrink or warp. A window that locks out unpleasant weather and saves you money by cutting heating bills. These are PLUS VALUES — at NO EXTRA COST!



# SLENDER LINES ADMIT *More* LIGHT

## *and Vision*

Windows either add to or detract from the appearance of your home. Steel Casements, due to their flexibility in design and arrangement, add a welcoming charm that is irresistible. Their wide swinging vents, their separate glass panels, seem to invite you to stop and see the beauty that lies within. Their slender and graceful lines offer practically no barrier to light. They let the glorious sunshine and beautiful vistas in. Steel Casements harmonize with all styles of architecture.

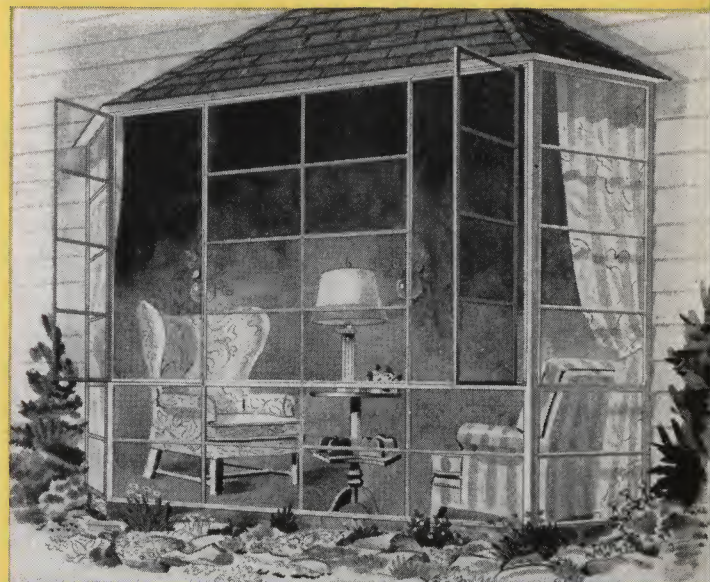




# BEAUTIFUL PICTURE WINDOWS

## *for the Home*

Look at those smart, trim lines! There's a note of modern beauty here that can't be missed. Yes — and the beauty of these Truscon Casements is permanent because they are made of steel. Take note of the larger glass area. Imagine how their stream-lined beauty and grace will adapt themselves perfectly to your personal plans for decorating your new home. It's fun to plan each room . . . because into each will go some element of your own personality and good taste.





TRUSCON

# WIDE SWINGING VENTS

*Permit  
Controlled Ventilation*



In rooms where windows are opened and closed frequently or where ventilation needs are great and varied, Truscon Residence Steel Casements fill a utilitarian need in addition to being decorative. Clean, bright, air-controlled kitchens are possible and a slight, fingertip touch adjusts window opening. Side hinged casements can be so opened that they invite or retard the flow of air. High, small or unusually placed window openings all become more useful and attractive when fitted with Steel Casements.





# TRUSCON

## SCREENS AND STORM SASH

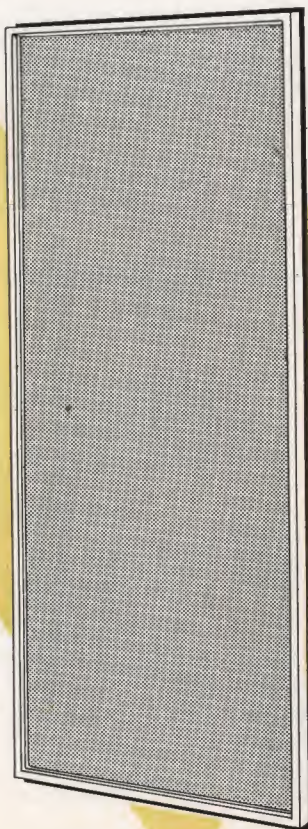
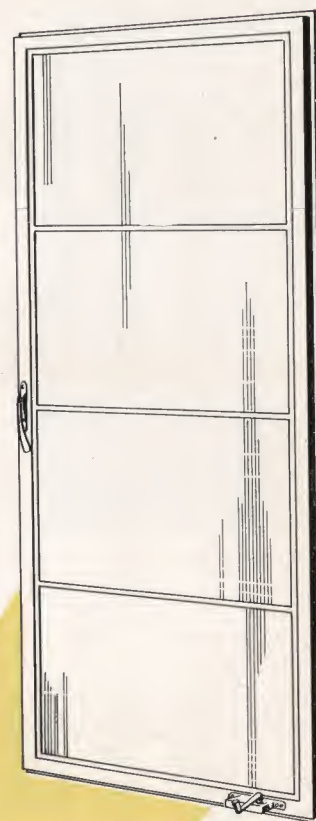
### FOR TRUSCON RESIDENCE STEEL CASEMENTS



Truscon Casement Screens are easily installed on the inside! They are out of the weather and remain clean and protected. Windows may be opened and closed without removing the screen. Curtains and draperies stay clean and fresh. Windows look neat and trim inside and out.

Truscon Casement Storm Sash are quickly and conveniently installed on the inside, too. They fit snug and tight, forming an effective air seal against the transmission of heat or cold.

Both Truscon Casement Screens and Storm Sash are made under direct Truscon supervision, in a special Truscon factory devoted exclusively to this type of manufacture. Standardized production assures precision and economy.

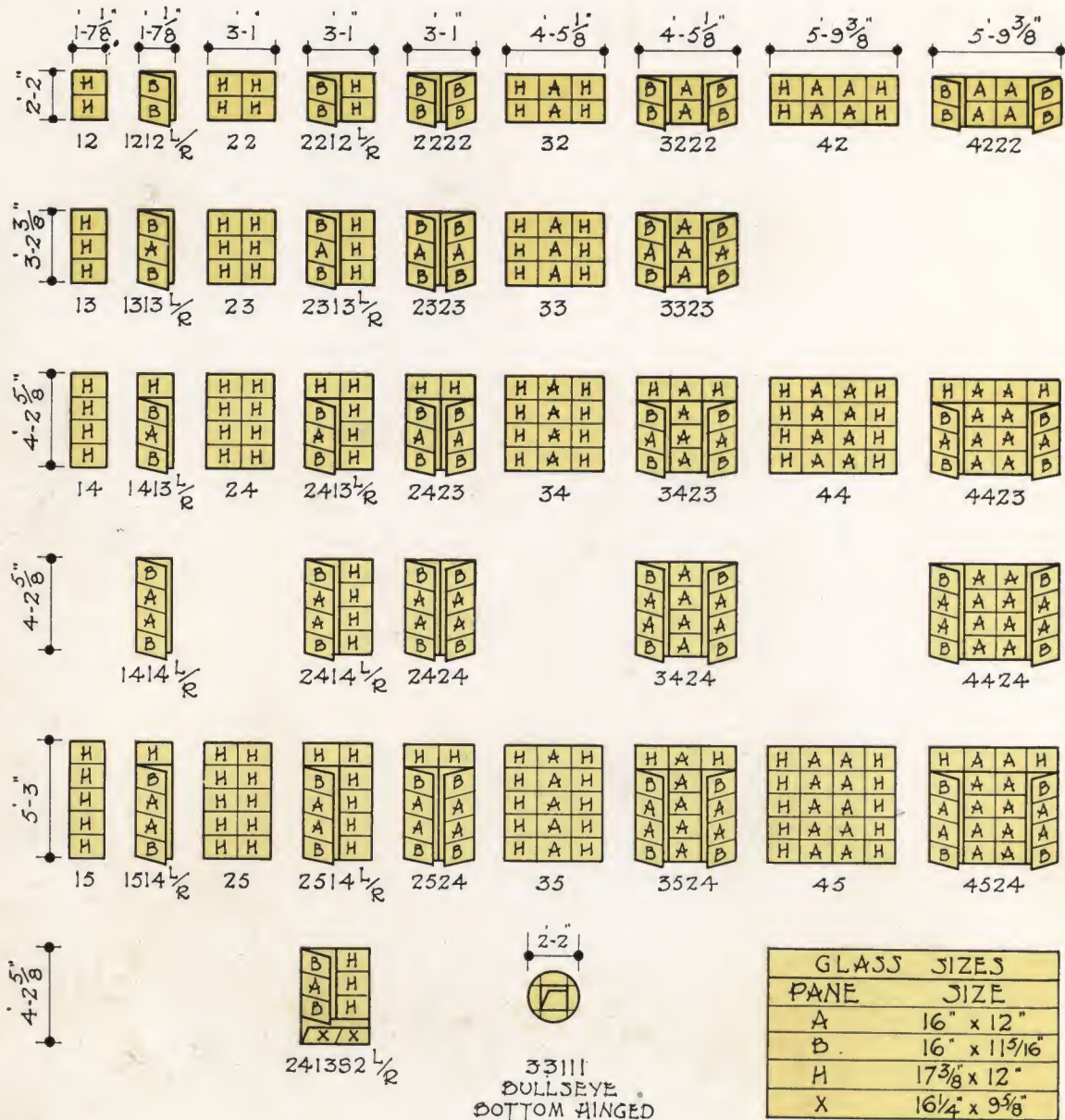




# TYPES AND SIZES

## TRUSCON RESIDENCE STEEL CASEMENTS

ACTUAL WINDOW DIMENSIONS ARE SHOWN



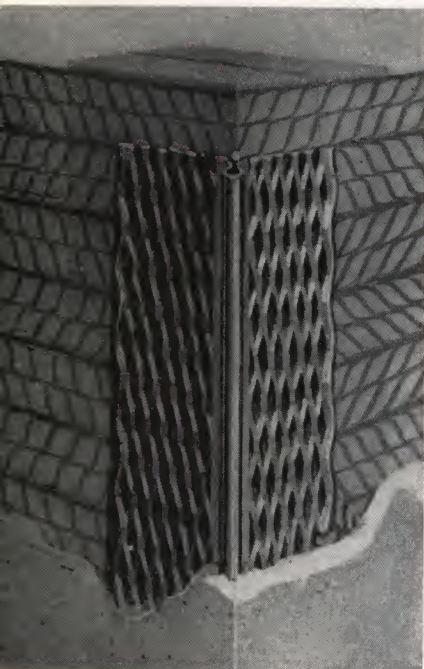
### NOTES

ALL WINDOWS ARE VIEWED FROM THE OUTSIDE.  
 DIMENSIONS SHOWN ARE ACTUAL WINDOW DIMENSIONS.  
 HAND OF CASEMENTS IS DETERMINED BY LOCATION OF  
 HINGES AS VIEWED FROM THE OUTSIDE. SINGLE  
 VENTILATOR CASEMENTS SHOWN WITH SUFFIX  $\frac{1}{2}R$  ARE  
 MADE WITH VENTILATORS HINGED EITHER AT LEFT  
 JAMB OR AT RIGHT JAMB. [LEFT HAND SHOWN] WHEN  
 ORDERING PLEASE INDICATE WHICH HAND IS DESIRED.

STUD OR ROUGH OPENING SIZES.  
 FOR STUD OPENING OR ROUGH OPENING  
 SIZES USE WINDOW DIMENSIONS SHOWN  
 IN CHART AND ADD  $1\frac{1}{2}$ " IN WIDTH AND  
 $1\frac{1}{2}$ " IN HEIGHT.

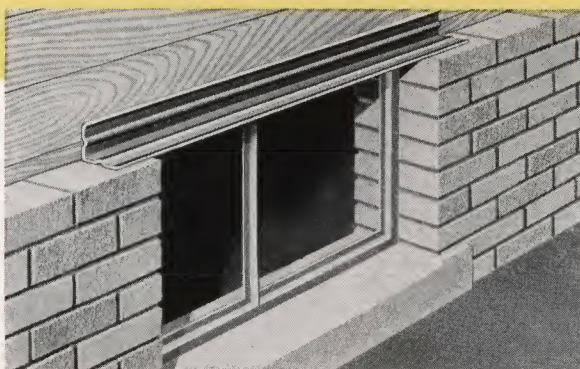


# OTHER TRUSCON STEEL BUILDING PRODUCTS FOR HOME BUILDING



## EXPANDED CORNER BEAD

Expanded Corner Bead attached to all outside corners such as archways, etc., presents a smooth steel edge which absorbs all shocks and bumps, and guards against cracks. May be used with any type of plaster base.



## STEEL BASEMENT WINDOWS AND FORMED STEEL LINTELS

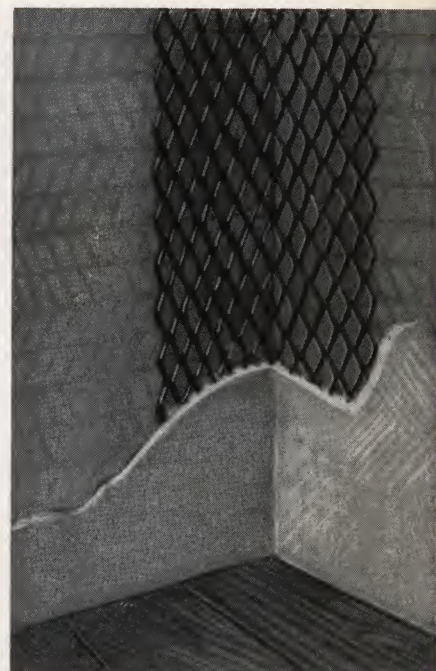
The strong steel frame and slender muntin bars of the steel basement window obstruct the very minimum of daylight and help to make the basement a bright and cheery room.

Formed Steel Lintels are used over steel windows and doors and ordinary wood windows and doors.



## COAL CHUTE DOORS

They are made entirely of heavy rust-resisting copper bearing pressed steel and are break-proof and weatherproof. Neat and trim in appearance.



## CORNERITE

Cornerite is a practical and economical reinforcement for all inside plaster corners. It fits into all room corners and may be used with wood masonry, wall board or metal lath plaster base.

*Return  
this  
Card,*

TRUSCON STEEL COMPANY  
Youngstown, Ohio

Gentlemen:

I am interested in more detailed information regarding Truscon  
Casements ☐ Residential Double-Hung Windows ☐  
Other Products..... ☐ Please send complete catalogs.

I have ☐ have not ☐ consulted an architect.

Architect's name..... Address.....

Please have your representative call ☐ Best time for appointment: Morning ☐ Afternoon ☐ Evening ☐

Name.....  
Address.....  
City..... Zone..... State.....

FOR ADDITIONAL  
INFORMATION



# TRUSCON SALES OFFICES

Albany 3, N. Y., 71 Forest Avenue	Little Rock, Ark., 812-13 Union Life Bldg.
Atlanta 3, Ga., 610 Rhodes-Haverty Building	Los Angeles 54, Calif., P. O. Box 3699 Terminal Annex Sta.
Baltimore 11, Md., 330 W. 24th Street	Memphis 5, Tenn., 269 Walnut Street
Birmingham 3, Ala., 1234 Martin Building	Minneapolis 2, Minn., 246 Baker Building
Boston 27, Mass., 307 Dorchester Avenue	New Orleans 12, La., 1143 Canal Bank Building
Buffalo 3, N. Y., 1426 Rand Building	New York 17, N. Y., 155 E. 44th Street
Chattanooga 1, Tenn., 19th and Grove Streets	Norfolk 10, Va., 518 Dickson Building
Chicago 6, Ill., 201 North Wells Street	Oklahoma City 2, Okla., 24 N. W. First Street
Cincinnati 2, Ohio, 330 Dixie Terminal Building	Omaha 2, Nebr., 806-07 Insurance Building
Cleveland 15, Ohio, 902 Hanna Building	Philadelphia 3, Pa., 1616 Walnut Street
Columbus 15, Ohio, 1018 Atlas Building	Phoenix, Ariz., 321 Luhrs Building
Dallas 1, Texas, 314 Construction Building	Pittsburgh 22, Pa., 2541 Oliver Building
Dayton 2, Ohio, 44 S. Ludlow Street	Portland 4, Oregon, 317 Builders Exchange Bldg.
Detroit 26, Michigan, 615 Wayne Street	St. Louis 3, Mo., 8th Floor, Shell Building
Greensboro, N. C., 935-6 Jefferson Standard Bldg.	Salt Lake City 10, Utah, 1526 S. West Temple Street
Houston 11, Texas, P. O. Box 9085	San Francisco 5, Calif., 604 Mission Street
Indianapolis 4, Ind., 800 Circle Tower Building	Syracuse 2, N. Y., Syracuse-Kemper Insurance Bldg.
Jacksonville 2, Fla., 301 Hildebrandt Building	Toledo 4, Ohio, 220 Richardson Building
Kansas City 6, Mo., 1001 Fluor Bldg.	Washington 5, D. C., 700 Investment Building
	Youngstown 1, Ohio, Albert Street

PRESSED STEEL DIVISION, 6100 Truscon Ave., CLEVELAND 4, OHIO  
FOREIGN TRADE DEPT., Chrysler Bldg., 405 Lexington Ave., NEW YORK 17, N. Y.

# TRUSCON WAREHOUSES

Boston, Mass.	Gadsden, Ala.	Los Angeles, Calif.
Buffalo, N. Y.	Houston, Texas	Philadelphia, Pa.
Chicago, Ill.	Jacksonville, Fla.	Pittsburgh, Pa.
Cleveland, Ohio	Kansas City, Mo.	St. Louis, Mo.
Detroit, Mich.	Long Island City, N. Y.	Youngstown, Ohio

Executive Offices and Main Plant

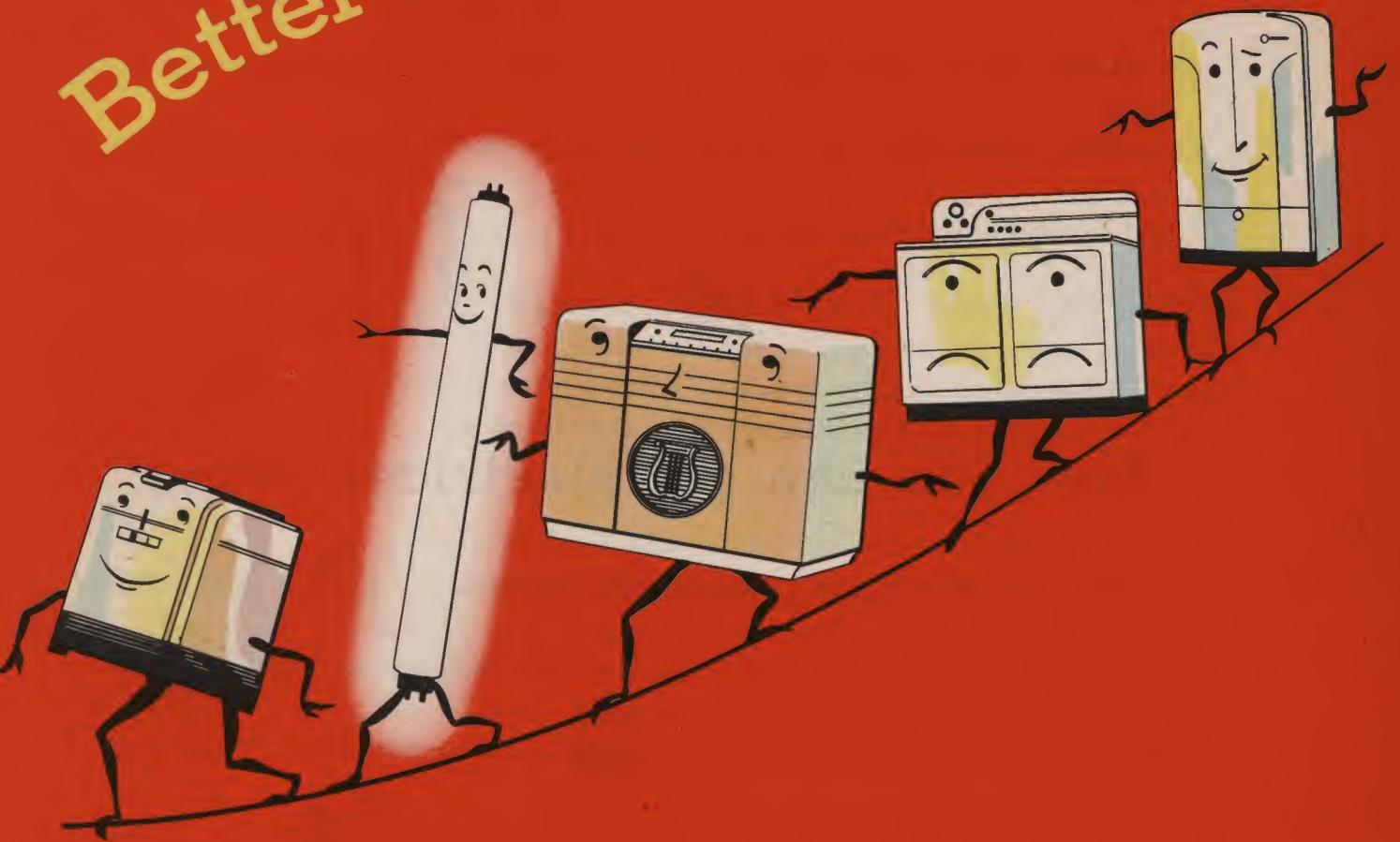
YOUNGSTOWN, OHIO

Subsidiary of Republic Steel Corporation

Factories in: Youngstown, Ohio; Cleveland, Ohio; Gadsden, Ala.







Better Living Means



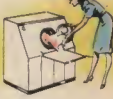



Electrical Living



# what is electrical living?

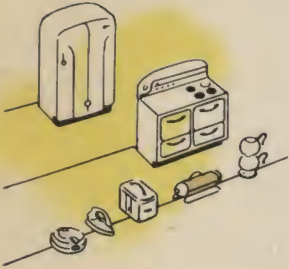
Electrical Living is a better way to live . . . for it gives you control of  an army of eager, willing electrical servants. It eliminates most of the drudgery  of housework. It brings health and safety . . . with better lighting, electronic air cleaning, germ-killing Sterilamps, and better food preservation and cookery. It brings entertainment, too,  with radio, television, home  movies and hobbies.

## how you can get electrical living

First, get acquainted with all the benefits  Electrical Living can bring to your home. Second, decide on the electrical servants you will install first,  and then, those you would like to add in the next few years.  Third, make sure that your wiring is "planned ahead", so that these new servants  can be added without the necessity of re-wiring. To help you plan ahead for Electrical Living, Westinghouse offers the ideas and suggestions on the following pages.

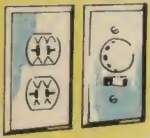


# the essentials of good wiring



## 1. INCLUDE PLENTY OF CIRCUITS

Circuits are the highways over which electricity travels. The amount of electricity a circuit can supply is limited. If you are preparing a meal and have too many electrical appliances operating at a time on a single electrical circuit, it may be overloaded and go out of service. However, if the loads are distributed over several circuits, all the appliances will work without interruption.



## 2. HAVE AN OUTLET HANDY FOR EACH APPLIANCE

There should be several outlets in each room so that there will be one handy for every appliance or lamp, thus eliminating the unsightly tangle of extension cords. Do not put too many outlets on a single circuit.



## 3. PROVIDE MODERN CIRCUIT PROTECTION

Protect every circuit against the dangers of short circuits and continued overloads, the modern way, with a Westinghouse circuit breaker. Install it in some convenient place, such as a kitchen wall, where it's easy to reach. Should trouble occur, the circuit breaker will trip; then remove the cause, flick the lever back in place and service is restored.



## 4. GET QUALITY WIRING DEVICES AND WORKMANSHIP

Electrical wiring is buried in the walls of the house, and is costly to replace. The best insurance against this unnecessary expense is to insist on quality wiring devices and materials and expert workmanship. Ask your architect, engineer, builder, contractor, or local power company for recommendations.



# add new convenience to living



With a Westinghouse Electric Range you can put an entire meal in the oven to cook, set the controls, and forget it until ready to serve. It's fast, clean, safe and economical.

A single setting of the dial on an automatic Westinghouse Electric Refrigerator supplies the five zones of cold and humidity required for different kinds of food.



Banish after-dinner blues with an Electric Dishwasher. It washes, rinses, and dries glasses, dishes, silver. In ten minutes they are clean and dry.

You'll want several outlets for a Westinghouse roaster, toaster, sandwich grill, waffle baker, and coffeemaker in the kitchen and dining space where these and other appliances speed meal preparation.



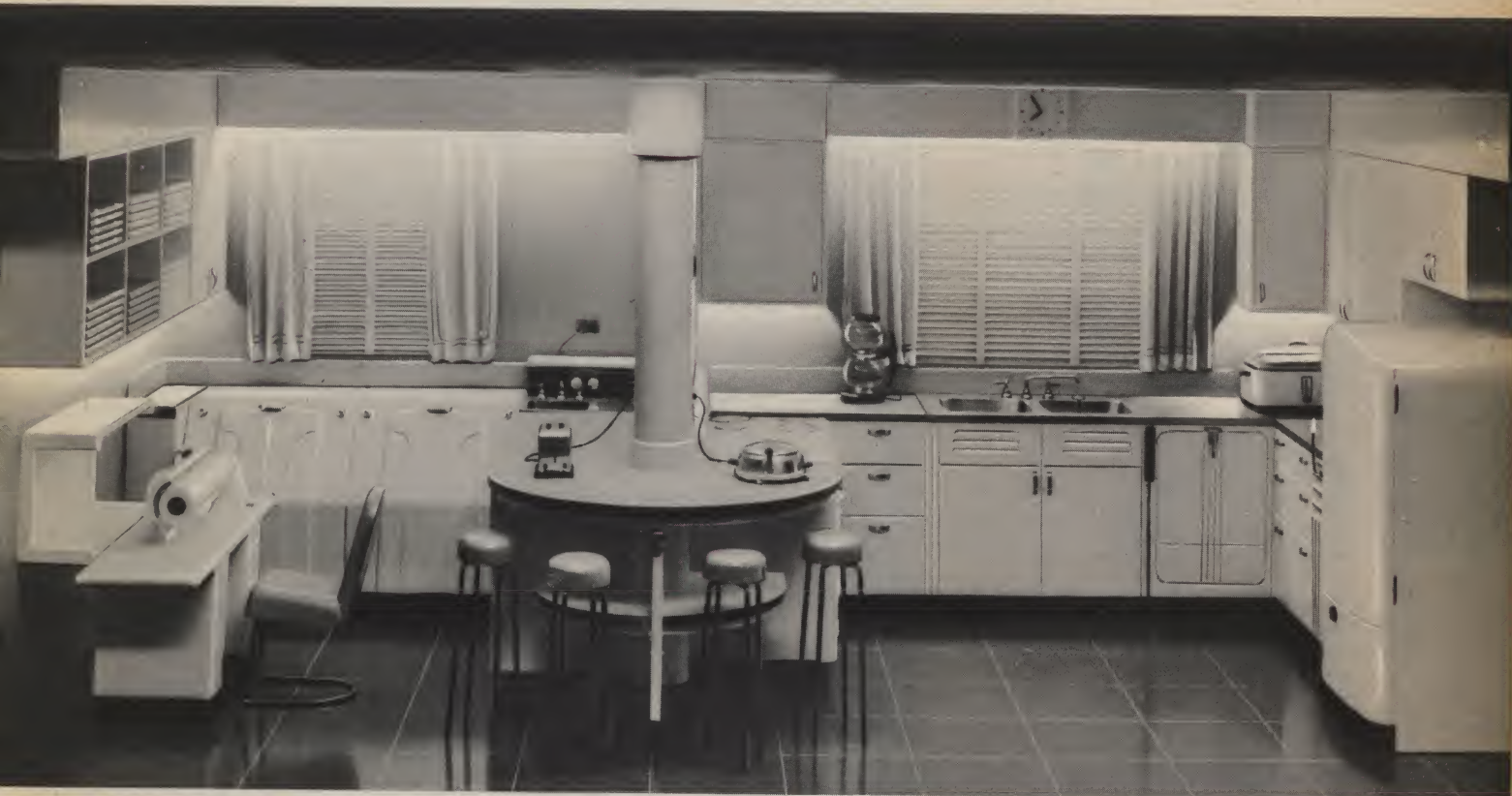
Of course, you'll want good light at every work center (fluorescent lights are especially desirable there), and good general illumination by ceiling lights, with conveniently placed wall switches.

You will want a ventilating fan to clear out cooking odors. Outlets for radio and clock should also be included in your plan.





# with an efficient kitchen and laundry



Do your laundry the modern, easy way. Simply put soiled clothes in a Laundromat, set two dials, add soap. Clothes automatically are washed, rinsed three times in fresh water, and spun amazingly dry.



Ironing becomes easier with a Westinghouse Electric Ironer, for you sit down as you iron. Irons anything—easier—faster—better. For hand ironing, the Westinghouse Streamline Electric Iron with finger-tip heat control saves work.

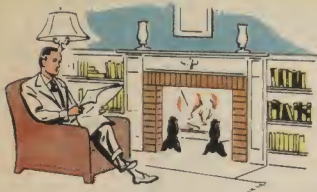
With a Westinghouse Electric Clothes Dryer, you can dry clothing the Electrical Living way. Just put clothes into the dryer, set the dials, and soon the clothes will be dry.



Have all the hot water you want—when you want it—at low cost. The Westinghouse Electric Water Heater has an automatic thermostat that maintains any water temperature desired from 120° to 170°.



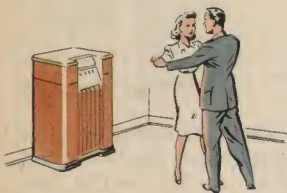
# you'll enjoy electrical living



Fluorescent light in beautiful pastel colors multiplies the decorative effects you can obtain with clever use of lights.



Plan your lighting for greater SEE-ABILITY for general illumination as well as for reading or sewing. Provide convenience outlets so floor and table lamps can be placed in any part of the room.



The world's finest music and entertainment are at your command with a Westinghouse Combination Radio-Phonograph. Be sure your plans include a wall outlet for it, both for current and aerial.



Television is on the horizon, and you'll want to be ready for it. Home movies, too, will demand a place and require an outlet for the projector.



All through the house new uses of electricity are adding to the pleasures of living. In the living and dining room, you'll find ways to add new beauty and glamour with lighting, as well as better SEE-ABILITY.

You'll find a multitude of other ways in which electricity will enrich your living. Plan to have your home wired for complete Electrical Living.



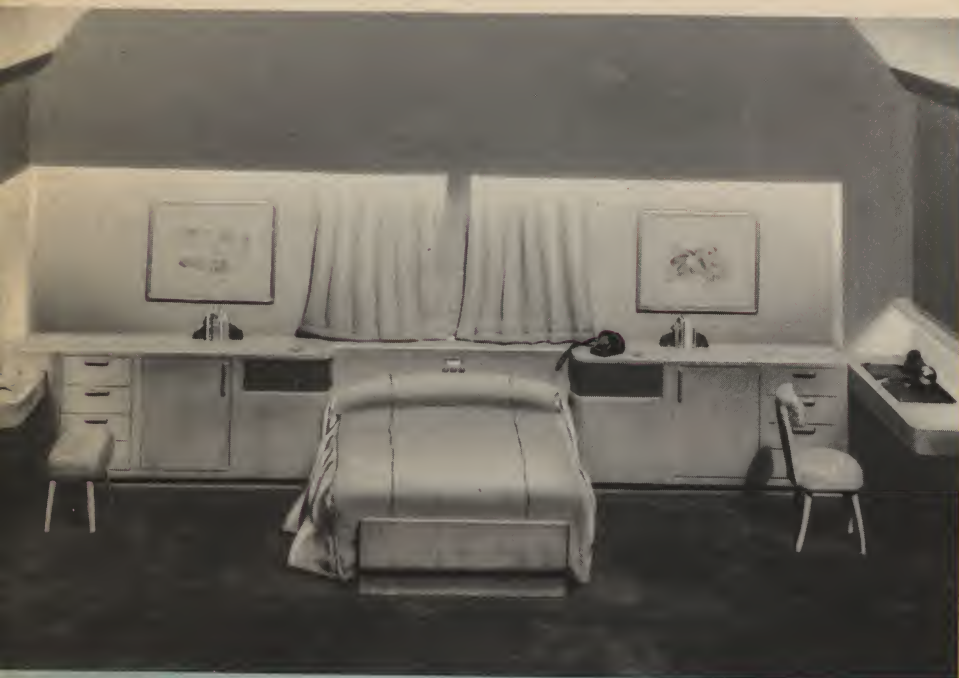
Modern developments in musical instruments, such as electric organs, will require current for their operation and necessary lights. Consider outlets for them.



Entertaining will be easier if you have convenience outlets for electric appliances near your serving table.



# all through your house



Electricity adds its contribution to living in bedrooms and baths. In the bedroom you want solid comfort, with a restful atmosphere for sleeping, sewing, reading, writing and dressing. Electricity can play a vital role in helping you realize these desires. Even in the bath you will find it ready to give you added comfort and convenience.



The bath should have ample lighting. Westinghouse fluorescent lights give ideal illumination at mirrors. Plan for vaporproof shower light.



An electric heater quickly takes the chill off the bathroom air; costs little to operate.



Whether it's a sun bath, a massage, a shave, or some pretty curls, electricity is ready to lend a hand—if wiring plans have provided for the conveniences you want.

A Mobilaire Room Cooler will enable you to enjoy cool, dehumidified air in the hottest weather. In some rooms a Westinghouse Electric Fan may suffice. Wire for them.



Lighting takes the "blindfold" away from closets. Avoid the annoyance of trying to find clothes in a dark closet by installing a light with automatic switch in every closet.

Electricity can be an aid to better health. A Sterilamp\* kills air-borne germs. A sun lamp helps keep the glow of health. Portable electric heaters, heating pads and blankets also add to your comfort. \*Trademark Registered.

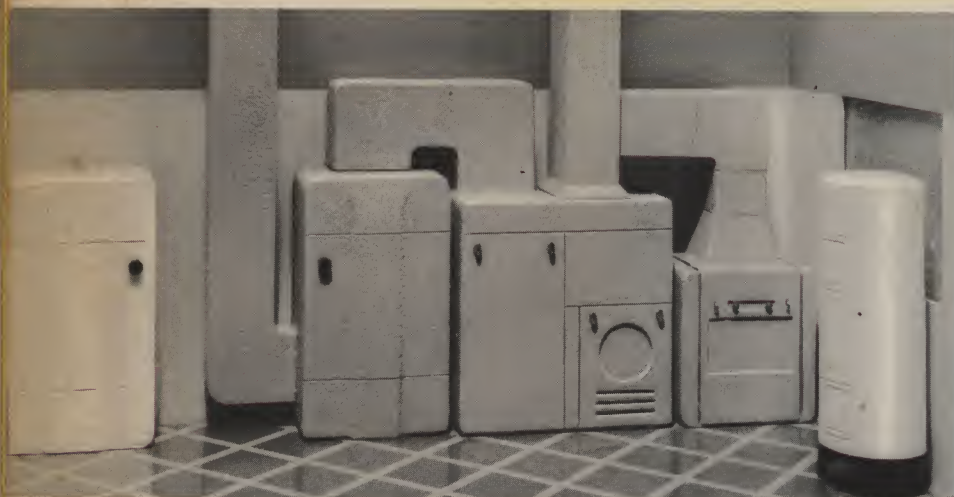


Plan for lighting where you want it. Want to relax and read in an easy chair or in bed? It's easy if you have sufficient outlets. Consider, too, ceiling or cove lighting.





# an electrified basement or utility room will make life easier



Here again electricity plays an important part in giving you freedom from burdensome tasks. It operates your heating, air cooling, PRECIPITRON\* Air Cleaner, food freezing, water-heating units, workshop tools and provides light for utility and recreation room.

\*Trade Mark Registered



Electricity makes automatic heat possible. It operates equipment and maintains uniform temperature. Provide wiring for automatic control.



The Precipitron Air Cleaner removes smoke, soot, dirt and other particles from the air so completely that far less cleaning, dusting and redecorating are required.



Recreation rooms require good light, as well as hobby rooms. You may choose Westinghouse Fluorescent or Mazda incandescent lamps with cove, recessed, or standard fixtures.

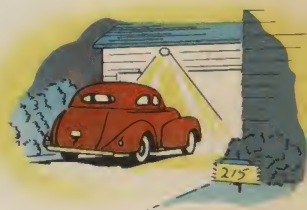
Enjoy fresh, frozen food the year 'round with a Westinghouse Home Freezer. It is thoroughly insulated to keep operating costs low.



A workshop is a "must" in many homes. Be sure to provide circuits and outlets for electric tools and lighting.



Outside the house you'll have uses for electricity, too. It may include garage lights, lighted house numbers, or spot lighting at features of your landscaping.



*Better living*  *through better wiring*

**Better Homes Department  
Westinghouse Electric Corporation**

**Box 1017, Pittsburgh 30, Pa.**

Your electric utility, architect, builder, wiring contractor or dealer will be glad to tell you more about Westinghouse electrical products and Bryant wiring devices.











